

**JOHN DEERE**  
**WORLDWIDE COMMERCIAL & CONSUMER**  
**EQUIPMENT DIVISION**

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**Front Mower**  
**1420, 1435, 1445, 1545, 1565**

OMTCU17249 J2

**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

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## 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 (030001 - )

1435 PIN (030001 - )

1445 PIN (030001 - )

1545 PIN (010001 - )

1565 PIN (020001 - )

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:

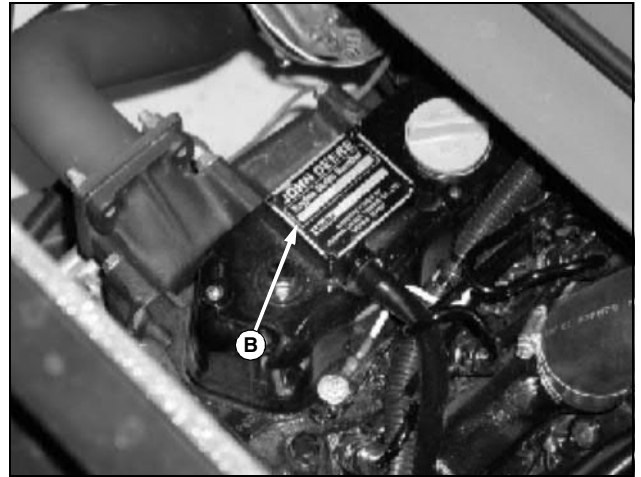
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DEALER NAME:

\_\_\_\_\_

DEALER PHONE:

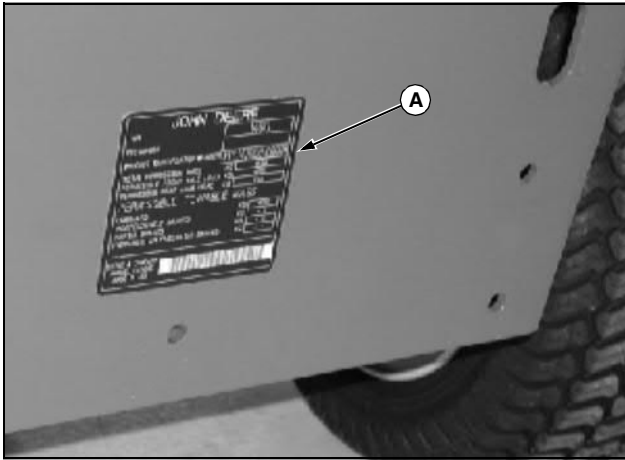
\_\_\_\_\_



MX7086

ENGINE SERIAL NUMBER (B):

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MX7053

PRODUCT IDENTIFICATION NUMBER (A):

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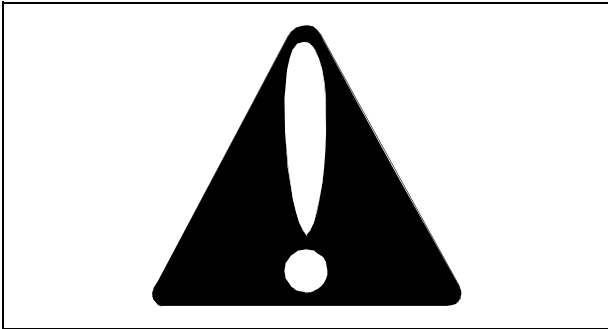
All information, illustrations and specifications in this manual are based on the latest information at the time of publication. The right is reserved to make changes at any time without notice.

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John Deere Worldwide Commercial and  
Consumer Equipment Division  
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Previous Editions  
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OMTCU17249 J2 - English

# SAFETY

## Understanding the Machine Safety Labels



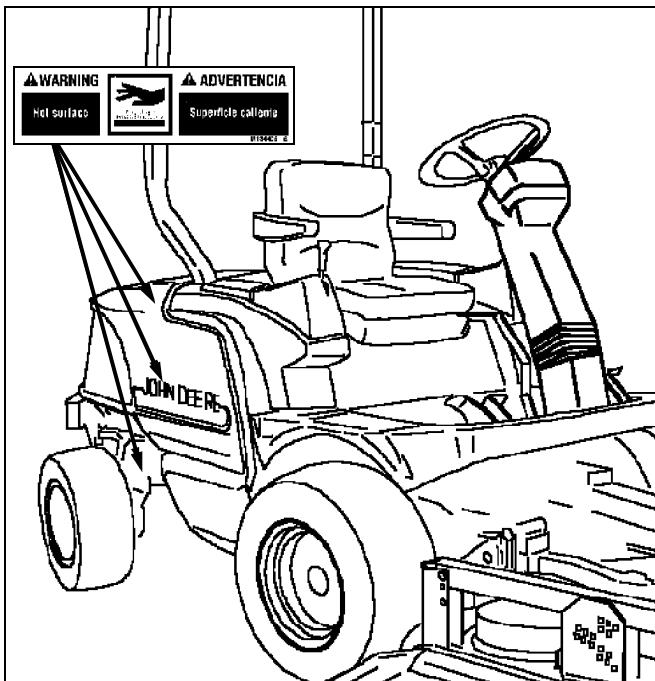
Safety Alert Symbol

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.

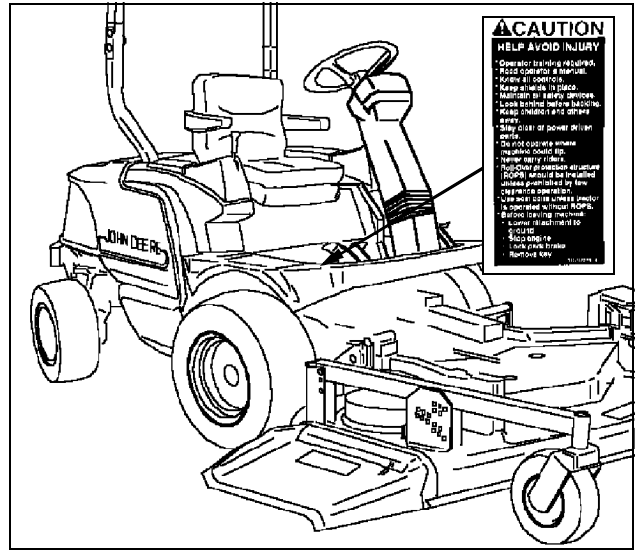
## WARNING



MX044, MX4471

Hot surface

## CAUTION



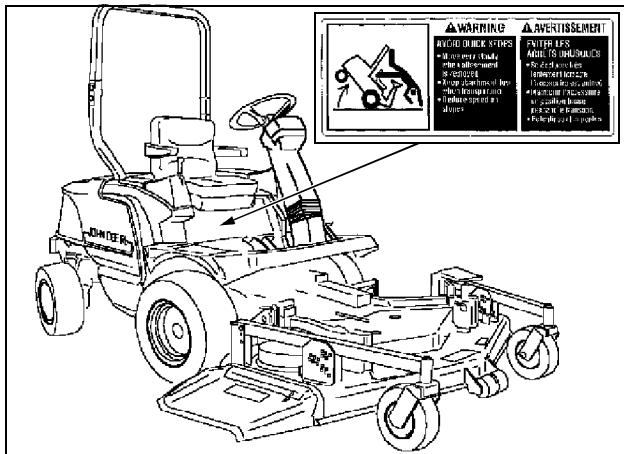
MX4471, MX7037

## 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

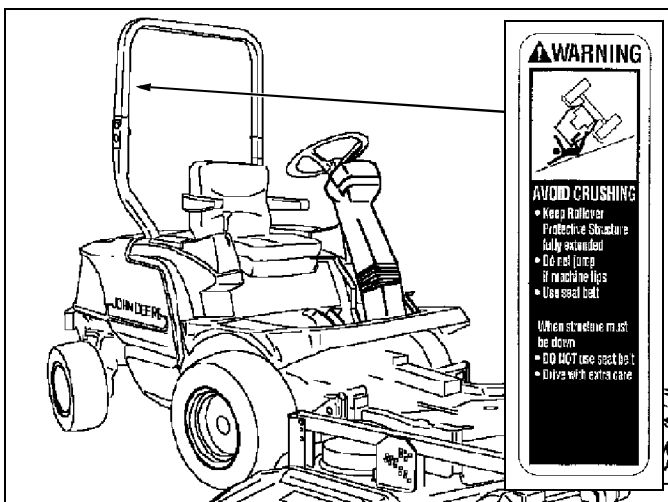


MX4471, MX7035

### AVOID QUICK STOPS

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

## WARNING



MX4471, MX7034

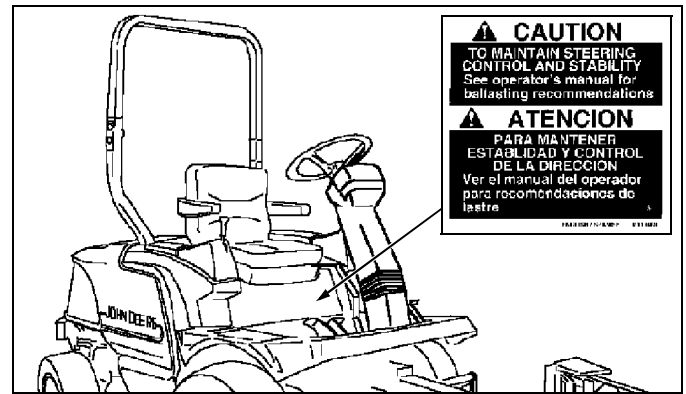
### AVOID CRUSHING

- 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

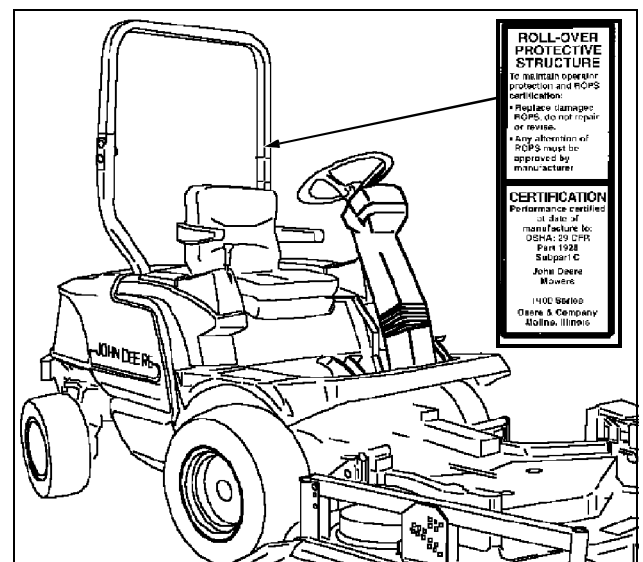


MX4471, MX7038

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:

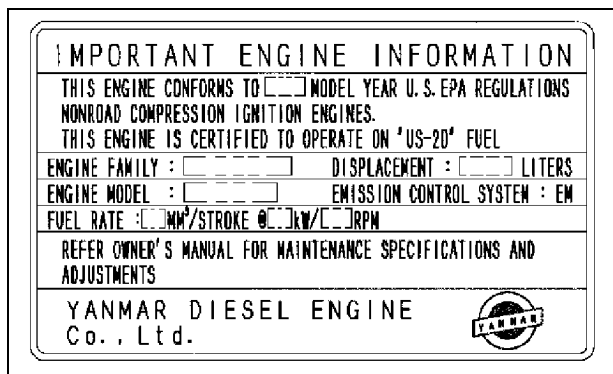
Two Post ROPS – OSHA: 29 CFR, Part 1928, Subpart C

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/transportable<sup>1</sup>) 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

<sup>1</sup> 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

Your product has been tested and evaluated by the manufacturer and conforms with American National Standard B-71.4, "Safety Specifications" for commercial turf care equipment.

## Operator Training Required

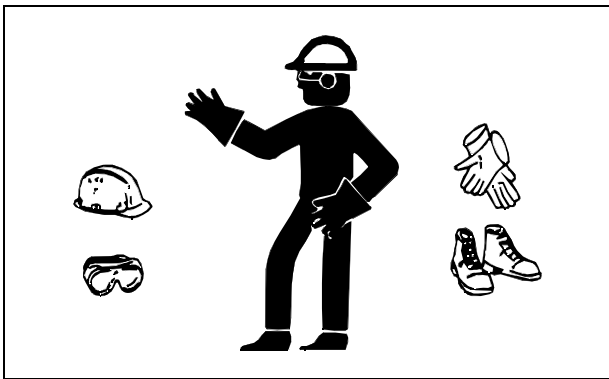
- The owner of the machine is responsible for training the users and mechanics of the machine.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people, or property.
- Do not let children operate the machine. Local regulations may restrict the age of the operator.
- Read the operator's manual and study the safety and operation sections before operating the machine.
- If the operator of the machine cannot read or

# SAFETY

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.

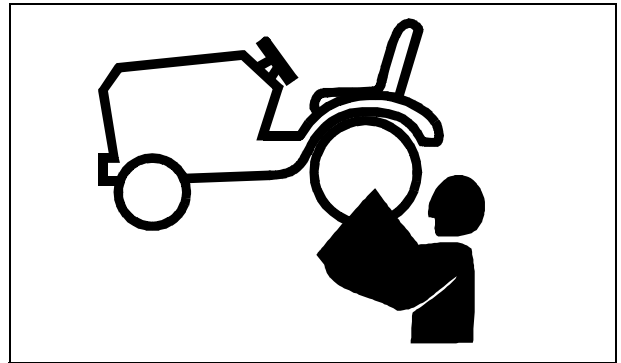
## Wear Appropriate Clothing



MIF

- Always wear safety goggles, or safety glasses with side shields, and a hard hat when operating the machine.
- Wear close fitting clothing and safety equipment appropriate for the job.
- While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Wear a suitable protective device such as earplugs. Loud noise can cause impairment or loss of hearing.

## Operating Safely



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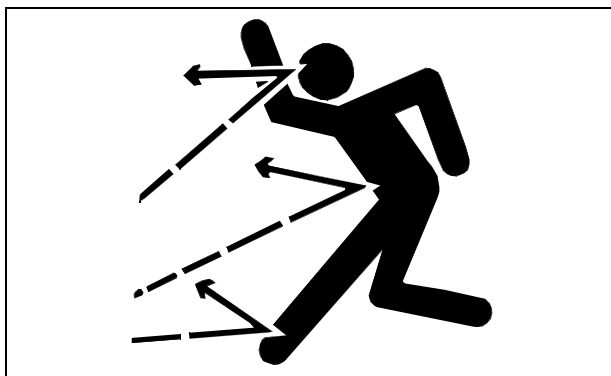
- Only allow responsible adults, who are familiar with the instructions to operate the machine. Local restrictions may restrict the age of the operator.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Replace faulty silencers. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Before using, always visually inspect to see that the blades, blade bolts and the mower assembly are not worn and damaged. Replace worn and damaged blades and bolts in sets to preserve balance.
- Be sure all drives are in neutral and parking brake is locked before starting engine. Only start engine from the operator's position.
- Do not change the engine governor settings or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.
- Do not operate mower without discharge chute or entire grass catcher in place. Never operate with the discharge deflector raised, removed, or altered, unless using a grass catcher.
- Check brake action before you operate. Adjust or service brakes as necessary.
- Stop machine if anyone enters the area.
- If you hit an object or if abnormal vibration occurs, stop and inspect the machine. Make repairs before you operate. Keep machine and attachments properly maintained and in good working order.
- Be aware of the mower discharge direction and make sure that no one is in the path of the discharge direction.
- Do not leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Stop the blades rotating before crossing surfaces other than grass.
- Use only accessories and attachments approved by the

# SAFETY

manufacturer of the machine. Keep safety labels visible when installing accessories and attachments.

- Do not operate machine if you are under the influence of drugs or alcohol.
- Check before each use that operator presence controls are functioning correctly. Test safety systems. Do not operate unless they are functioning correctly.
- Always wear seat belt if machine has a standard ROPS or a folding ROPS in the upright position.
- Never raise mower decks when blades are running.
- 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.
- Do not wear radio or music headphones. Safe service and operation require your full attention.
- Disengage drive to attachments when transporting or not in use.
- Reduce the throttle setting during engine run-out and, if the engine is provided with a fuel shut-off valve, turn the fuel off at the conclusion of mowing.
- When machine is left unattended, stored, or parked, lower the mower deck unless a positive mechanical lock is used.

## Checking Mowing Area

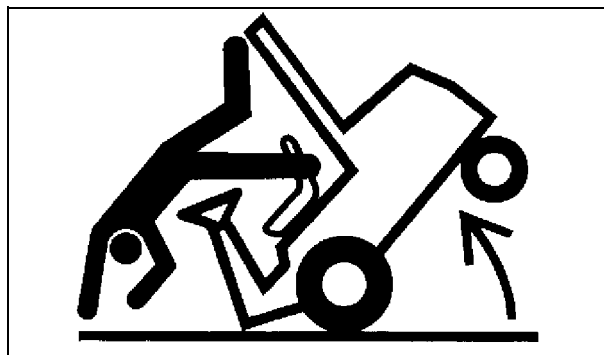


MIF

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job.
- Clear mowing area of objects that might be thrown. Keep people and pets out of mowing area.
- Low-hanging branches and similar obstacles can injure the operator or interfere with mowing operation. Before mowing, identify potential obstacles such as low-hanging branches, and trim or remove those obstacles.

- 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

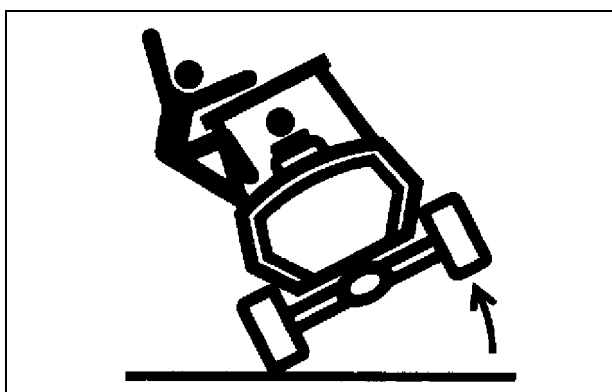
- Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.
- Drive up and down a hill - not across.
- Do not mow slopes you cannot back up.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction.
- Use a slow speed when operating on a slope. Choose a low gear or speed so that you will not have to stop or shift while on the slope.
- Tires may lose traction on slopes even though the brakes are functioning properly.
- Transport machine with decks lowered to improve stability.
- Drive machine very slowly and avoid quick stops when attachment is removed.
- Do not turn on slopes unless necessary. Turn slowly and turn downhill. Do not shift to neutral and coast downhill.
- Stay alert for holes and other hidden hazards in the terrain. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Keep away from drop-offs, ditches and embankments. The machine could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine. Do not use grass catcher on steep slopes.
- Follow the manufacturer's recommendations for wheel

# SAFETY

weights or counterweights for added stability when operating on slopes or using front or rear mounted attachments. Remove weights when not required.

- Do not stop when going up hill or down hill. If machine stops going up hill or tires lose traction, disengage mower blades and back down slowly.
- Operating machine 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



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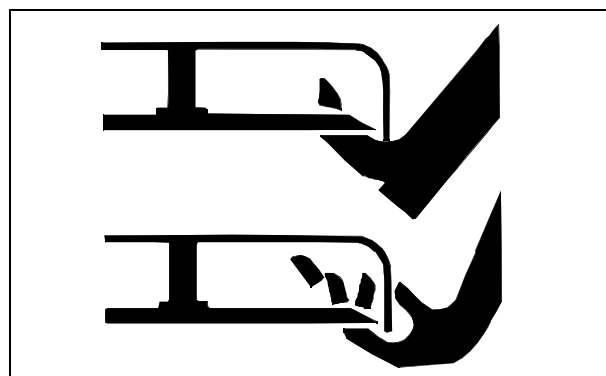
Explosive separation of a tire and rim parts can cause serious injury or death:

- 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:

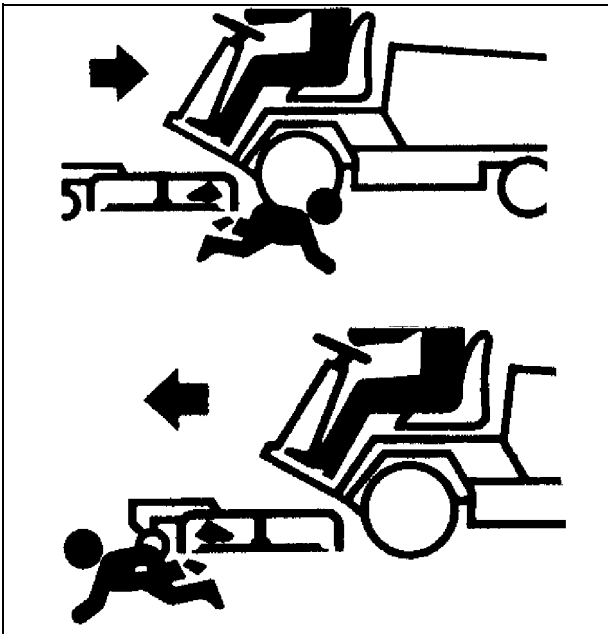


MIF

- 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.

# SAFETY

## 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.

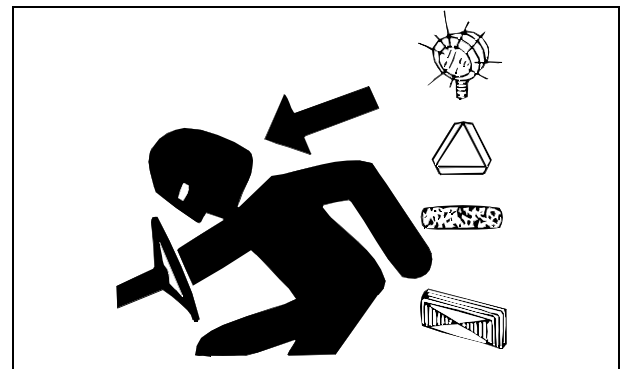
- Stop the engine and be sure PTO drive line is stopped before getting near it.

## 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.

# SAFETY

## Practice Safe Maintenance



MIF

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- 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 (for gasoline engines) before making any repairs.
- Before servicing machine, carefully release pressure from any 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. Use jack stands or lock service latches to support components when needed.
- 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.
- Grass catcher components are subject to wear, damage, and deterioration which could expose moving parts or allow objects to be thrown. Check components frequently and replace with manufacturer's recommended parts when necessary.
- 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.

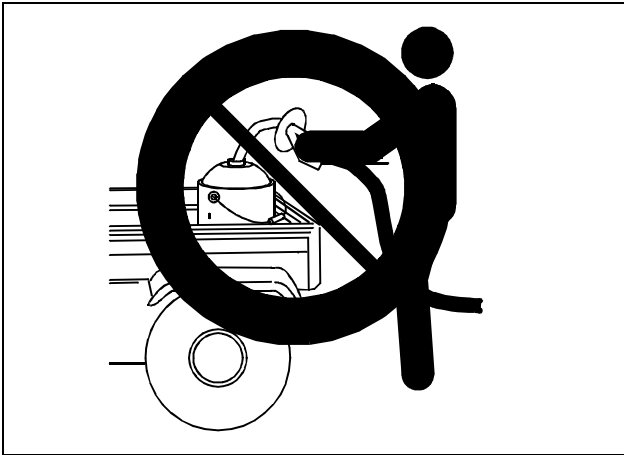
## Handling Fuel Safely

**Fuel and fuel vapors are highly flammable:**



- 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. If fuel is spilled on clothing, change clothing immediately.
- Do not store fuel in container or 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.

# SAFETY



- Static electric discharge can ignite gasoline vapors in an ungrounded fuel container. Remove the fuel container from the bed of a machine or trailer or the trunk of a car and place on the ground away from the machine before filling. Keep nozzle in contact with container opening while filling. Do not use a nozzle lock-open device.
- 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 gas with methanol. Methanol is harmful to your health and to the environment.

## Avoid High Pressure Fluids



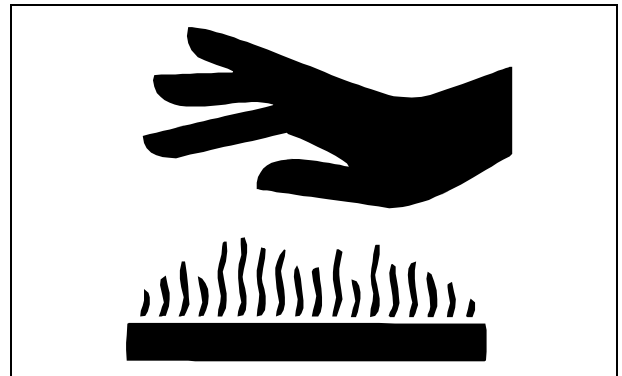
MIF

- 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 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.

## Prevent Fires

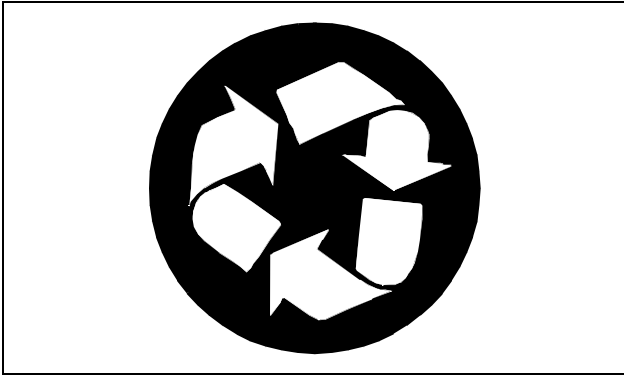


- Remove grass and debris from engine compartment and muffler area, before and after operating machine, especially after mowing or mulching in dry conditions.
- To reduce fire hazard, keep engine and engine compartment free of grass, leaves, or excessive grease.
- Allow engine to cool before storing in any enclosure.
- 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.

# SAFETY

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## Handling Waste Product and Chemicals



MIF

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 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.

# OPERATING MACHINE

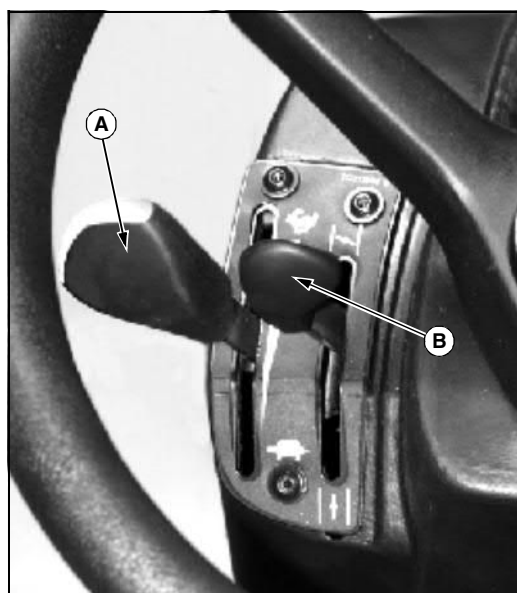
## Daily Operating Checklist

- 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

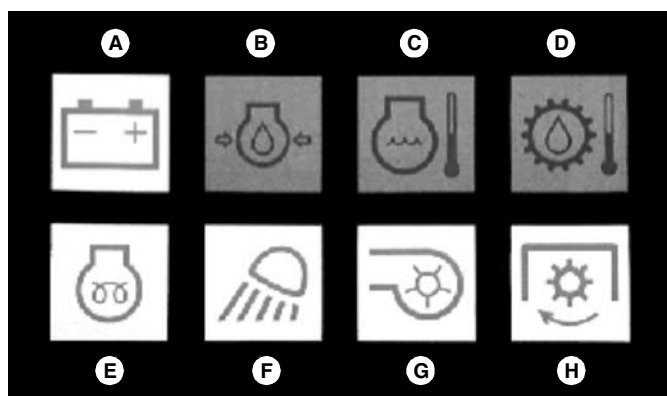
- Do not wipe plastic parts unless rinsed first. Using a dry cloth may cause scratches.
- Insect repellent spray may damage plastic and painted surfaces. Do not spray insect repellent near machine.
- Be careful not to spill fuel on machine. Fuel may damage surface. Wipe up spilled fuel immediately.

## Operator Station Controls



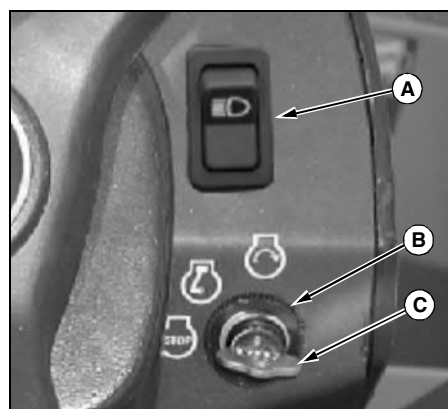
MX4473

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



MX10659

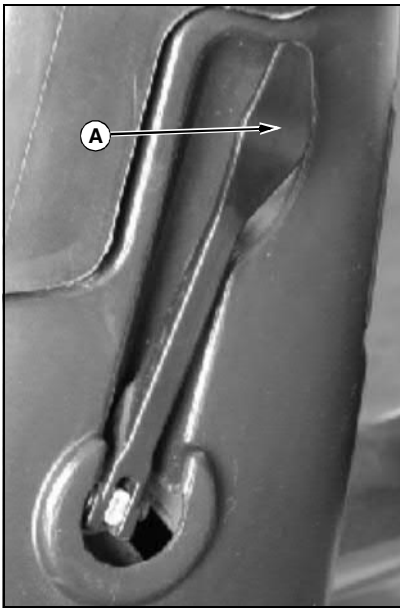
- A - Battery Discharge Lamp**
- B - Engine Oil Pressure Lamp**
- C - Engine Coolant Temperature Lamp**
- D - Hydraulic Oil Temperature Lamp (Not Used)**
- E - Engine Manifold Heater Lamp (Diesel Only)**
- F - Work Lamp Indicator**
- G - Material Collection System Lamp**
- H - Power Take-Off Indicator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



MX10662

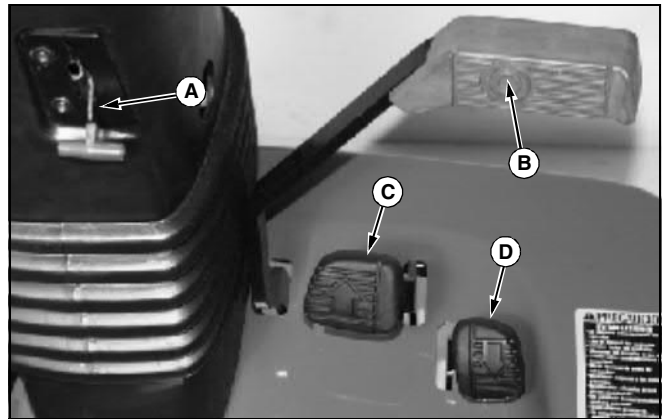
- A - Work Lamp Switch**
- B - Key Switch**
- C - Key**

# OPERATING MACHINE



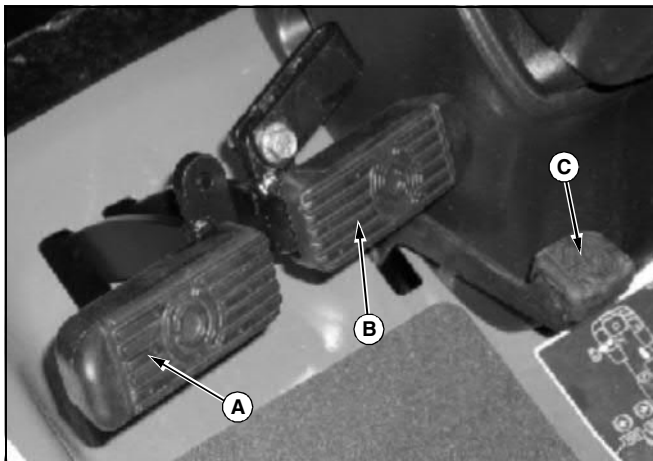
MX10660

**A - Steering Column Tilt Lock Lever**



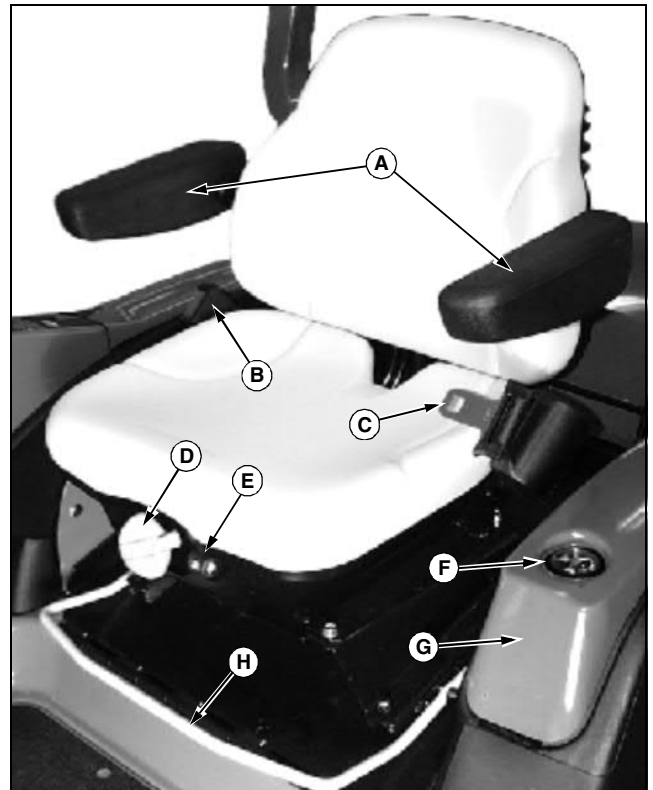
MX4474

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



MX10661

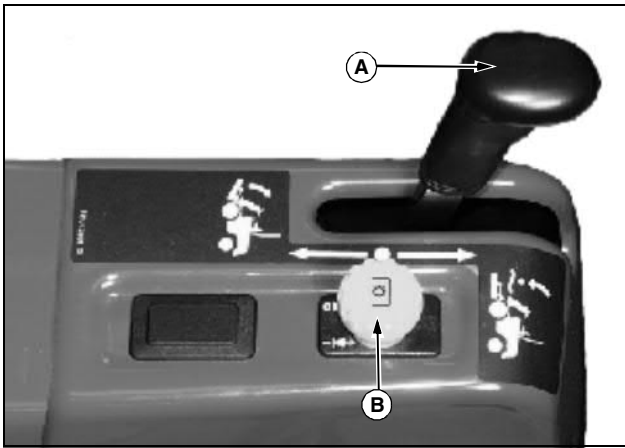
- A - Left Turn Brake Pedal**
- B - Right Turn Brake Pedal**
- C - Differential Lock Pedal**



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**

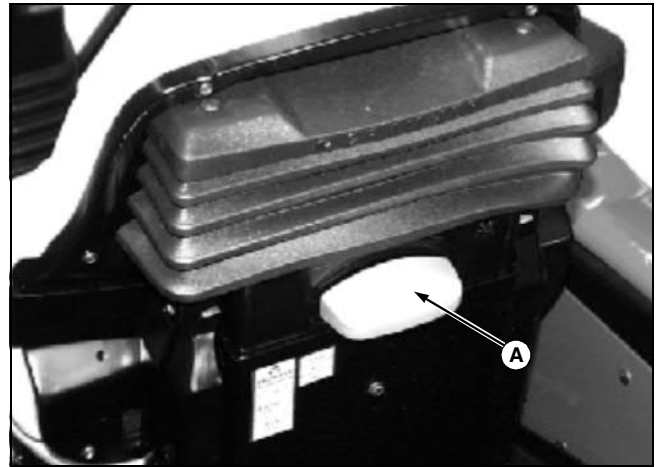
# OPERATING MACHINE



MX4483

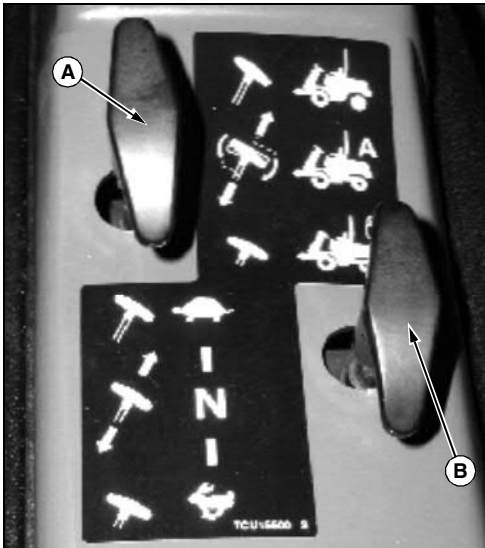
- A - Attachment Lift Lever
- B - PTO Knob

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



MX4478

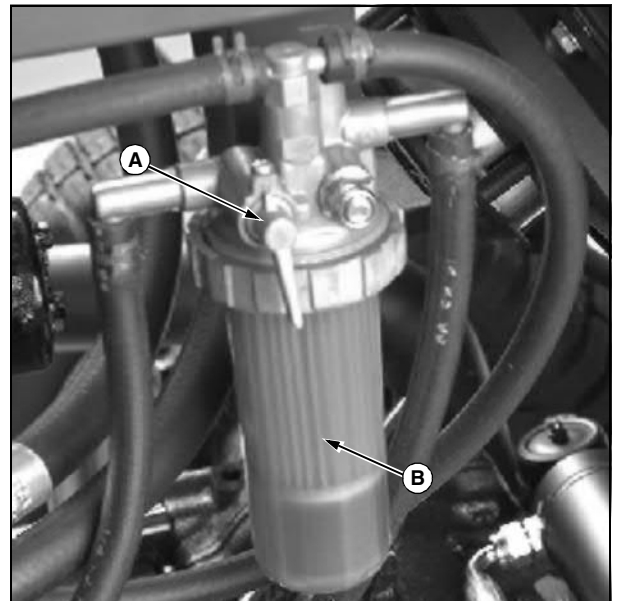
A - Seat Height Adjustment Lever



MX10663

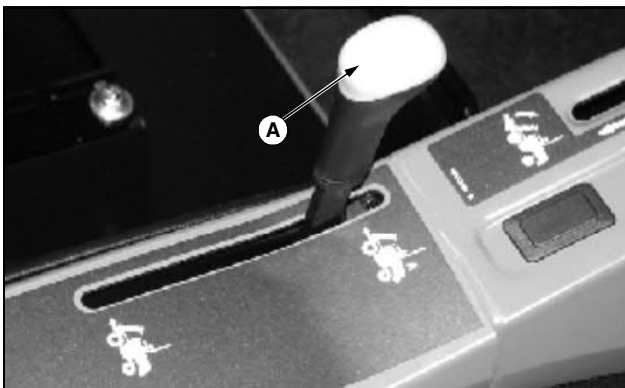
- A - 4WD Control Lever (1545, 1565 Model)
- B - Two-Speed Transaxle Shift Lever (1545, 1565 Model)

## Miscellaneous Controls



MX4498

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



MX7003



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**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**

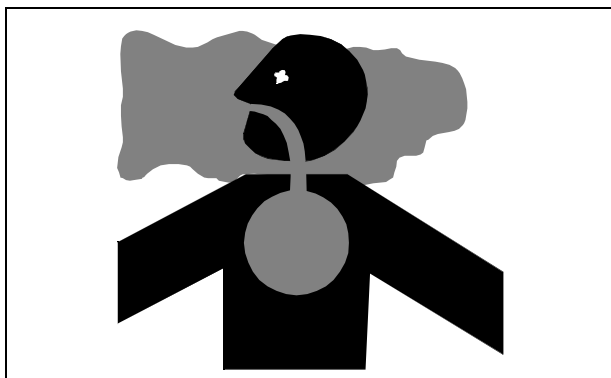
# OPERATING MACHINE



MX10673

A - 12Volt DC Power Outlet

## Testing Safety Systems



**CAUTION: Avoid injury! Engine exhaust fumes contain carbon monoxide and can cause serious illness or death.**

**Move the machine to an outside area before running the engine.**

**Do not run an engine in an enclosed area without adequate ventilation.**

- **Connect a pipe extension to the engine exhaust pipe to direct the exhaust fumes out of the area.**
- **Allow fresh outside air into the work area to clear the exhaust fumes out.**

The safety systems installed on your machine should be checked before each machine use. Be sure you have read the machine operator manual and are completely familiar with the operation of the machine before performing these safety system checks.

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

If there is a malfunction during one of these procedures, do not operate machine. **See your authorized 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.

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