

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Compact Utility Tractors
4510, 4610 and 4710

OMLVU13194 H2

OPERATOR'S MANUAL



JOHN DEERE

⚠ 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 having you as a customer 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.

If you have an implement, use the safety and operating information in the implement operator's manual along with the machine operator's manual to operate the implement safely and correctly.

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

Before delivering this machine, your dealer performed a predelivery 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.



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.

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.

PRODUCT IDENTIFICATION

Record Identification Numbers

Compact Utility Tractor with Gear or Hydrostatic Transmissions

4510 PIN (154001 -)

4610 PIN (160001 -)

4710 PIN (170001 -)

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 identifications numbers for the product. Record the information in the spaces provided below.

DATE OF PURCHASE:

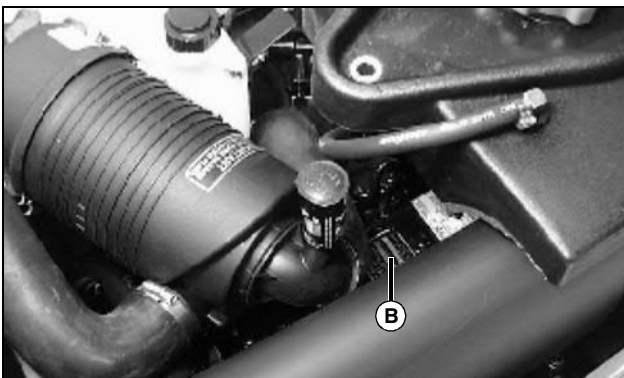
DEALER NAME:

DEALER PHONE:



MX4312

PRODUCT IDENTIFICATION NUMBER (A):



MX4313

ENGINE SERIAL NUMBER (B):

<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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Consumer Equipment Division
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OMLVU13194 H2 - 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.

CAUTION: READ OPERATOR'S MANUAL



MX10028, LVU10708

1. Read Operator's Manual before operating this machine.
2. Keep all shields in place.
3. Hitch towed loads only to drawbar to avoid rearward upset.
4. Make certain everyone is clear of machine before starting engine or operation.
5. Keep all riders off machine and equipment.

6. Keep hands, feet and clothing away from power-driven parts.
7. Reduce speed when turning or applying individual brakes or operating around hazards on rough ground or steep slopes.
8. Couple brake pedals together for road travel.
9. Use flashing warning lights on highway unless prohibited by law.
10. Stop engine, lower implement to ground and shift to "PARK" or set brake(s) securely before dismounting.
11. Wait for all movement to stop before servicing machinery.
12. Remove key if leaving machine unattended.

WARNING

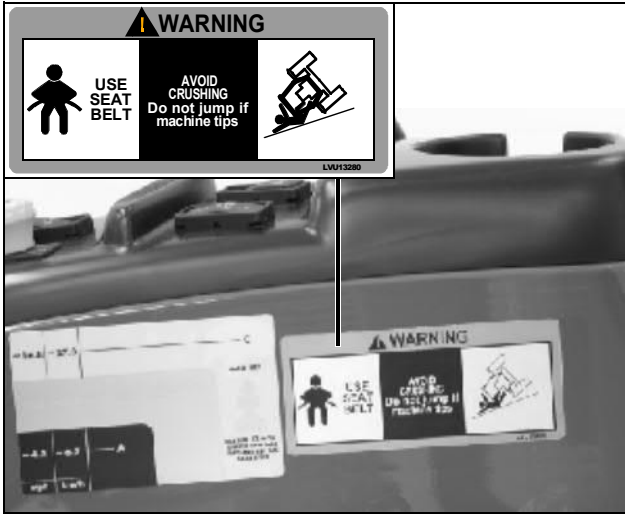


MX10701, R141735

If a canopy or sunshade is attached to the ROPS structure, the weight MUST be limited to 100 lb (45 kg) or less.

SAFETY

WARNING: AVOID CRUSHING



MX10708, LVU13280

Picture Note: Label attached to right fender when machine is equipped with a fixed ROPS.

Do not jump if machine tips.

USE SEAT BELT

- DO NOT use seat belt.
- Drive with extra care.

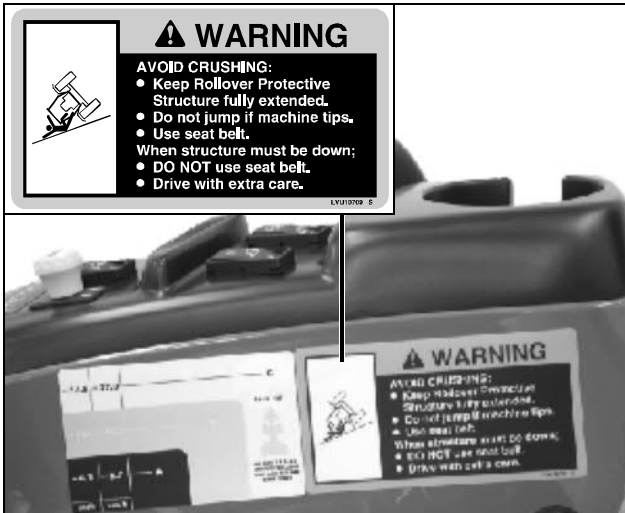
WARNING: AVOID INJURY FROM PTO



MX10057, M117557

- Keep all shields in place.
- Keep hands, feet and clothing away.
- Operate only with 540 RPM.

WARNING: AVOID CRUSHING



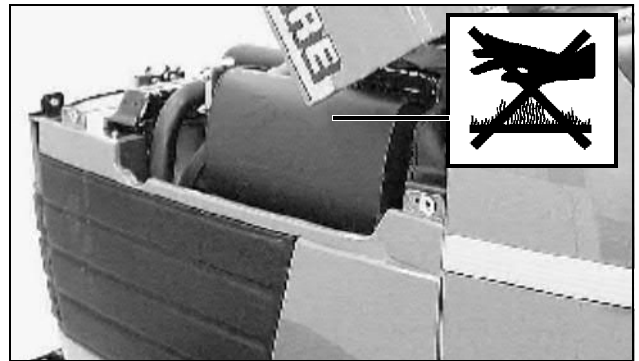
MX10056, LVU10709

Picture Note: Label attached to right fender when machine is equipped with a folding ROPS.

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

When structure must be down;

CAUTION: HOT SURFACE



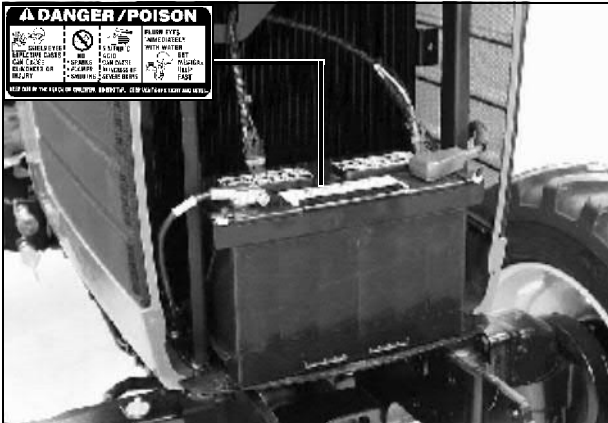
MX4805

Picture Note: No-text warning molded into muffler.

Do not touch engine muffler, it may be hot.

SAFETY

DANGER/POISON



M88249, MX4768

SHIELD EYES: EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.

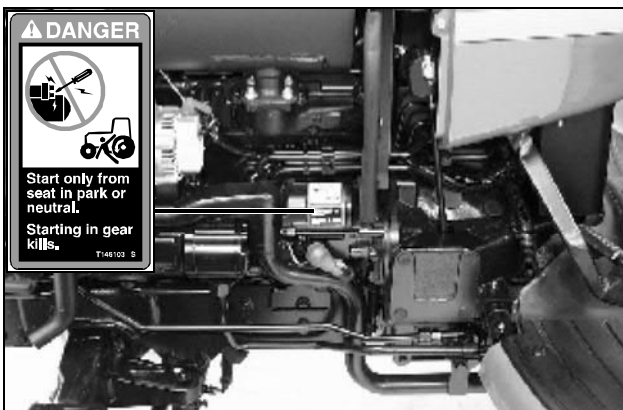
NO SPARKS, FLAMES, SMOKING.

SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS.

FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL HELP FAST.

KEEP OUT OF THE REACH OF CHILDREN. DO NOT TIP. KEEP VENT CAPS TIGHT AND LEVEL.

DANGER



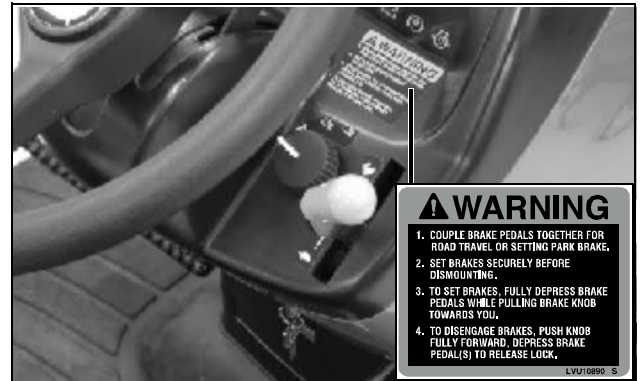
MX4809, T146103

Picture Note: Remove left side panel to locate safety label.

Start only from seat in park or neutral.

Starting in gear kills.

WARNING



MX10696, LVU13282

1. COUPLE BRAKE PEDALS TOGETHER FOR ROAD TRAVEL OR SETTING PARK BRAKE.
2. SET BRAKES SECURELY BEFORE DISMOUNTING.
3. TO SET BRAKES, FULLY DEPRESS BRAKE PEDALS WHILE PULLING BRAKE KNOB TOWARDS YOU.
4. TO DISENGAGE BRAKES, PUSH KNOB FULLY FORWARD, DEPRESS BRAKE PEDAL(S) TO RELEASE LOCK.

CAUTION



MX10750, LVU13502

Picture Note: Optional iMatch quick-attach hitch.

BEFORE USING, SECURE TRACTOR IMPLEMENT WITH BOTH LOCKING LUGS OVER LOWER IMPLEMENT PINS

SAFETY

Emissions Control System Certification Label (Non-Road Diesel)

IMPORTANT ENGINE INFORMATION	
THIS ENGINE CONFORMS TO [] MODEL YEAR U.S. EPA REGULATIONS NONROAD COMPRESSION IGNITION ENGINES. THIS ENGINE IS CERTIFIED TO OPERATE ON "US-20" FUEL	
ENGINE FAMILY : []	DISPLACEMENT : [] LITERS
ENGINE MODEL : []	EMISSION CONTROL SYSTEM : EM
FUEL RATE : [] KW / STROKE @ [] KW / [] RPM	
REFER OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS	
YANMAR DIESEL ENGINE Co., Ltd.	

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.

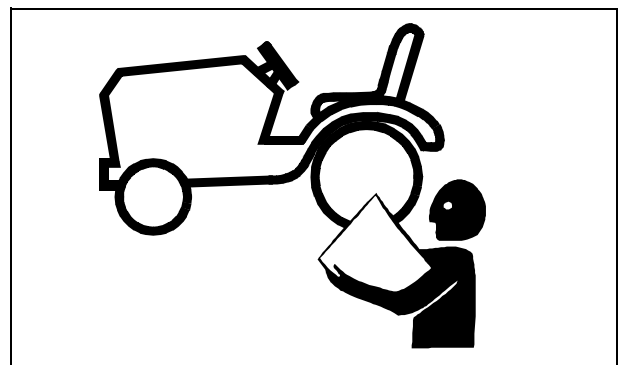
Operator Training Required

- 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.

1. Equipment moved at least once every 12 months.

- 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.

Operating Safely



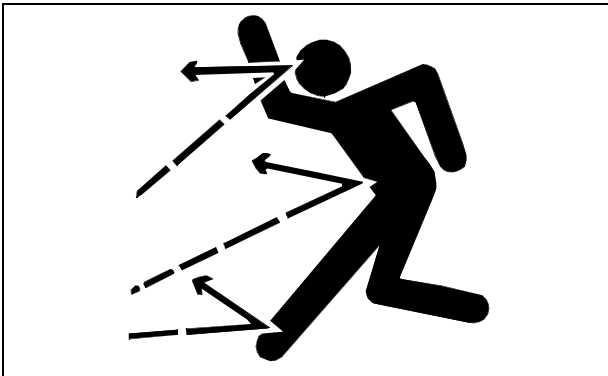
MIF

- 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.
- Do not operate mower without discharge chute or entire grass catcher in place.
- 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 implements 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.

SAFETY

- 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 implements approved by the manufacturer of the machine.

Checking Mowing Area



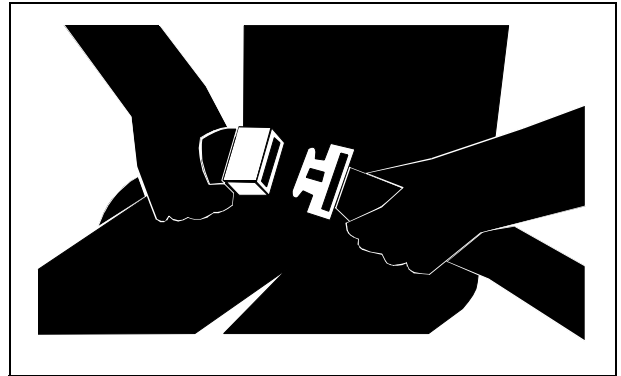
MIF

- Evaluate the terrain to determine what accessories and implements 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.
- 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.

Parking Safely

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

Use Seat Belt Properly

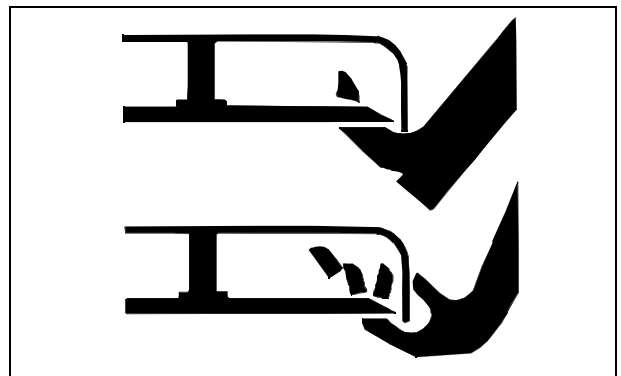


Use a seat belt when you operate with a Roll-Over Protective Structure (ROPS) to minimize chance of injury from an accident, such as an overturn.

Do not use a seat belt if operating with an optional tall folding ROPS in the folded position.

Rotating Blades are Dangerous

HELP PREVENT SERIOUS OR FATAL ACCIDENTS:

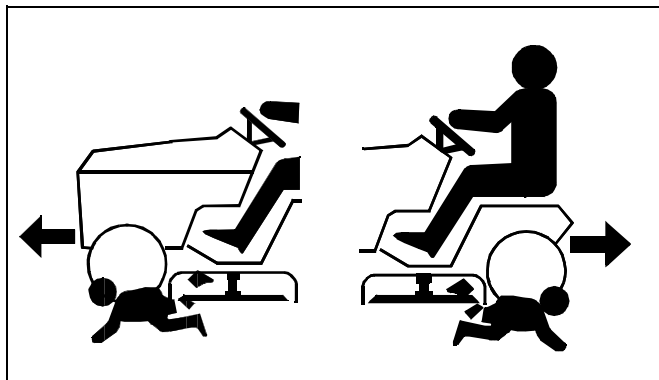


MIF

- Rotating blades can cut off arms and legs.
- Keep hands, feet and clothing away from mower deck 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 mow in reverse.
- Shut off blades when you are not mowing.
- Park machine safely before inspecting or unplugging mower or bagger.

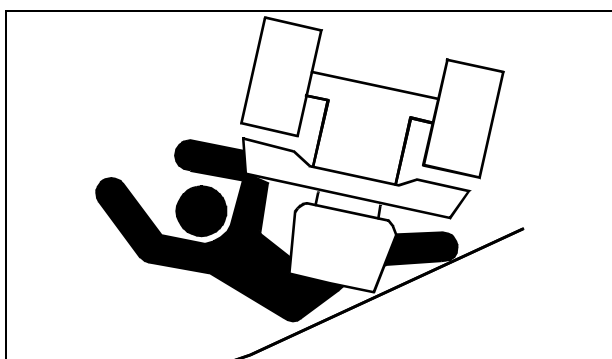
SAFETY

PROTECT CHILDREN:



- Never assume that children will remain where you last saw them. Children are attracted to mowing activity, stay alert to the presence of children.
- Keep children indoors when you are mowing. Turn the machine off if a child enters the mowing 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 any implement or machine even with the blades off. Do not tow children in a cart or trailer.

Avoid Tipping



- 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 implement manual.
- Drive up and down a hill - not across. If necessary, turn slowly and in the downhill direction. 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.
- Operating machine when grass is wet can cause reduced traction and sliding.

Keep Riders Off



- Only allow the operator on the machine. Keep riders off.
- Riders on the machine or implement 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.

SAFETY

Stay Clear of Rotating Drivelines



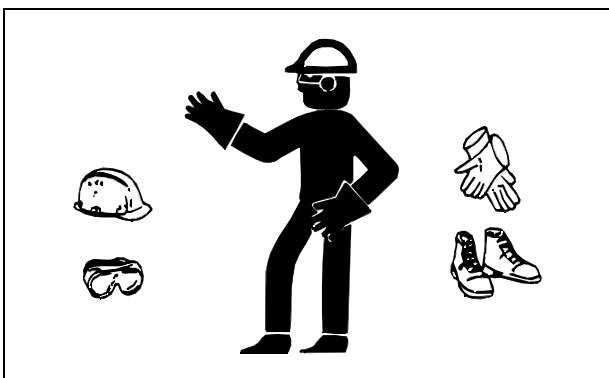
Entanglement in rotating driveline can cause serious injury or death.

- Wear close fitting clothing.
- Stop the engine and be sure PTO driveline is stopped before getting near it.

Checking Wheel Bolts

- A serious accident could occur causing serious injury if wheel bolts are not tight.
- Check wheel bolt tightness often during the first 100 hours of operation.
- Wheel hardware must be tightened to specified torque using the proper procedure anytime it is loosened.

Wear Appropriate Clothing

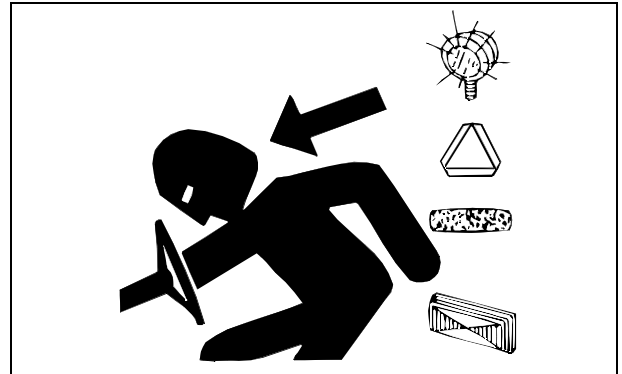


- Wear close fitting clothing and safety equipment appropriate for the job.
- Always wear safety goggles or safety glasses with side shields when operating the mower.
- Wear a suitable protective device such as earplugs.

Loud noise can cause impairment or loss of hearing.

- Do not wear radio or music headphones. Safe service and operation requires your full attention.
- Long hair, loose clothing, or jewelry may get tangled in moving parts.

Driving Safely on Public Roads



- Use safety lights and devices. Slow moving machines when driven on public roads are hard to see, especially at night.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Whenever driving on public roads, use flashing warning lights and turn signals according to state and local regulations.

Practice Safe Maintenance



- 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

SAFETY

moving. Keep safety devices in place and in working condition. Keep hardware tight.

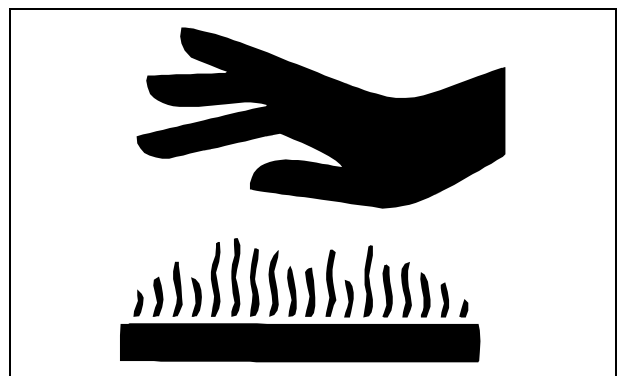
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Stop machine on a level surface and lower implements to the ground before servicing machine. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs.
- Before servicing machine, carefully release pressure from components with stored energy such as hydraulic components.
- Keep all nuts and bolts tightened, especially blade implement bolts.
- Securely support any machine elements that must be raised for service work. Lock service latches before working on machine with raised implements.
- Use jack stands 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. Newly-installed parts must include current safety labels specified by the manufacturer.
- 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.
- Do not wear radio or music headphones while servicing the machine. Safe service requires your full attention.

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 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



- Never remove fuel cap, or add fuel with engine running

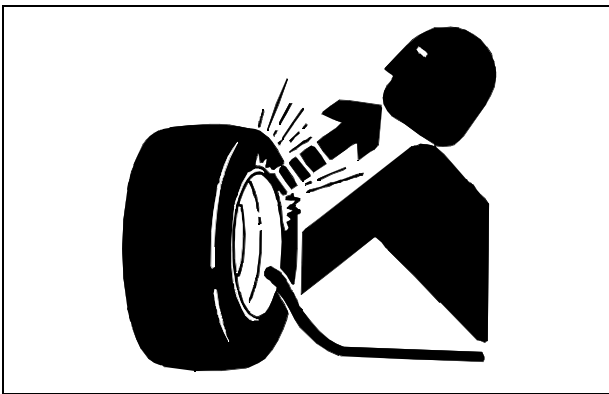
SAFETY

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.

Tire Safety

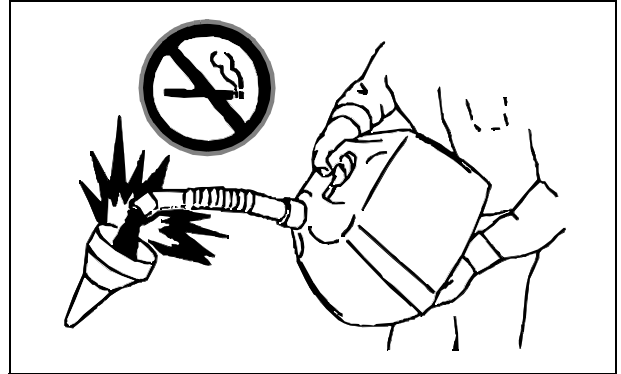
Explosive separation of a tire and rim parts can cause serious injury or death:



- 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.

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

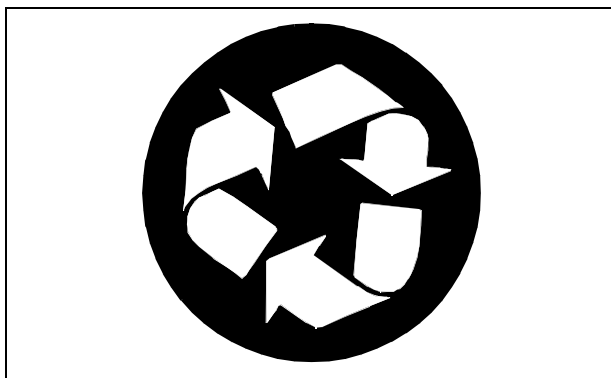
SAFETY

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 gas with methanol. Methanol is harmful to your health and to the environment.

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 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

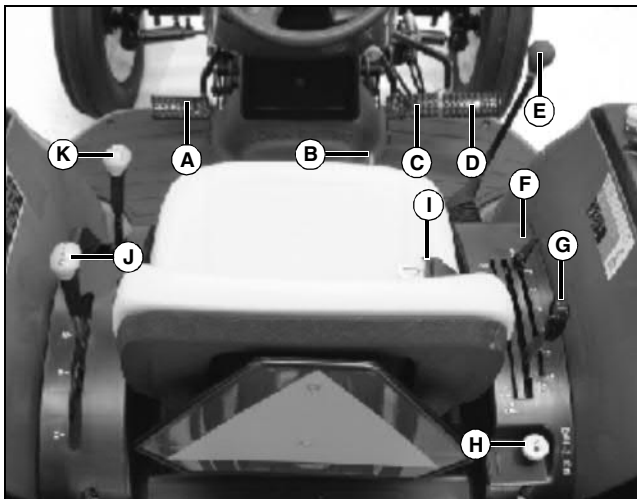
Daily Operating Checklist

- Test safety systems. Perform safety interlock system checkout procedure.
- Check tire pressure.
- Check fuel level.
- Check engine oil level.
- Check transmission oil level.
- Check coolant level on liquid cooled engine.
- Remove grass and debris from machine.
- Clean air intake screen.
- Check area below machine for leaks.

Avoid Damage to Plastic and Painted Surfaces

- Do not wipe plastic parts unless rinsed first.
- 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 (Gear Models)

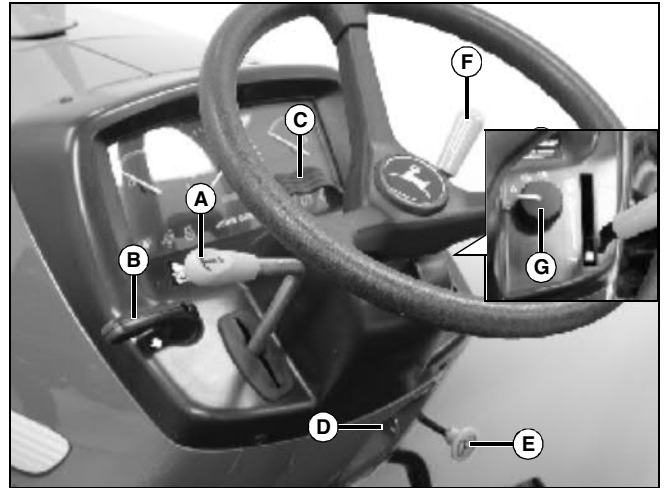


MX10755

Picture Note: SyncShift Model

- A - Clutch Pedal**
- B - Engine Speed Foot Throttle**
- C - Left Turn Brake Pedal**
- D - Right Turn Brake Pedal**
- E - Dual Selective Control Valve (SCV) Lever**

- F - Rockshaft Adjustable Depth Stop Knob**
- G - Rockshaft Control Lever**
- H - Mid-PTO Knob**
- I - Seat Belt**
- J - Transmission Range Shift Lever**
- K - Transmission Gear Shift Lever**

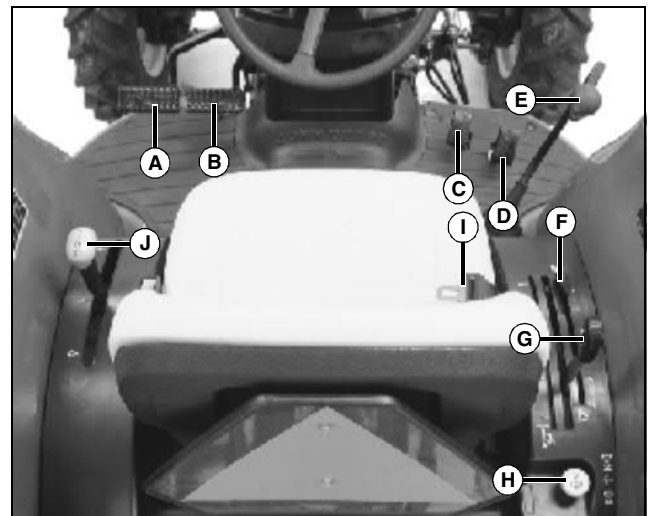


MX10756, MX10686

Picture Note: PowrReverser™ Model

- A - Reverser Lever (PowrReverser Model)**
- B - Turn Signal Lever**
- C - Tilt Steering Control Lever**
- D - Ignition Key Switch**
- E - Park Brake Lock**
- F - Engine Speed Hand Throttle Lever**
- G - Light Control Switch**

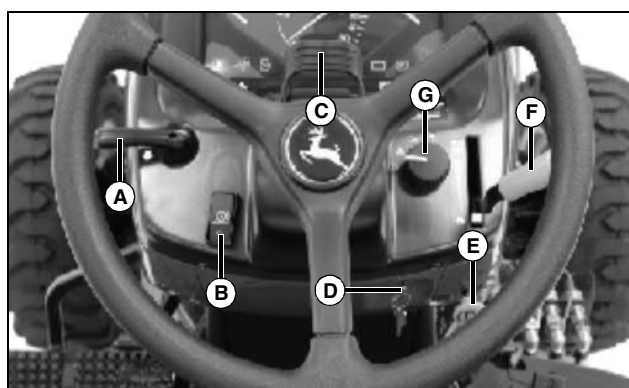
Operator Station (Hydrostatic Model)



MX10769

OPERATING

- A - Left Turn Brake Pedal
- B - Right Turn Brake Pedal
- C - Forward Travel Pedal
- D - Reverse Travel Pedal
- E - Dual Selective Control Valve (SCV) Lever
- F - Rockshaft Adjustable Depth Stop Knob
- G - Rockshaft Control Lever
- H - Mid-PTO Knob
- I - Seat Belt
- J - Transmission Range Shift Lever



MX10681

- A - Turn Signal Lever
- B - LoadMatch™ Switch
- C - Tilt Steering Control Lever
- D - Ignition Key Switch
- E - Park Brake Lock
- F - Engine Speed Hand Throttle Lever
- G - Light Control Switch

Right Side Panel Controls (Machines With Standard Cruise Control Installed)



MX10766

Picture Note: All controls shown may not be installed on your machine.

- A - Cruise Switch
- B - MFWD Switch
- C - MotionMatch™ Switch
- D - Indicator Lamp
- E - Rear PTO Knob

OPERATING

Right Side Panel Controls (Machines With Automotive Cruise Control Option Installed)



MX10767

Picture Note: All controls shown may not be installed on your machine.

- A - Cruise Switch
- B - Accel/Decel Switch
- C - MFWD Switch
- D - MotionMatch Switch
- E - Indicator Lamp
- F - Rear PTO Knob

Right Side Panel Controls (Machines With SpeedMatch™ Option Installed)



MX10767

Picture Note: All controls shown may not be installed on your machine.

- A - Cruise Switch
- B - Accel/Decel Switch
- C - MFWD Switch
- D - MotionMatch Switch
- E - Indicator Lamp
- F - Rear PTO Knob



Suggest:

If the above button click is invalid.

Please download this document

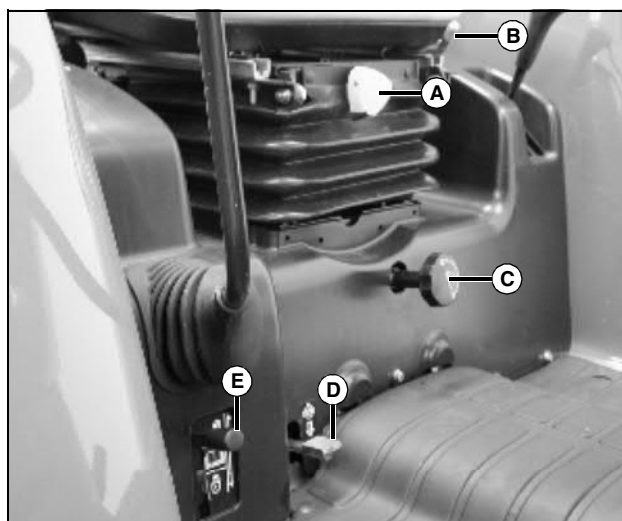
first, and then click the above link

to download the complete manual.

Thank you so much for reading

OPERATING

Floor Panel Controls (Gear Models)

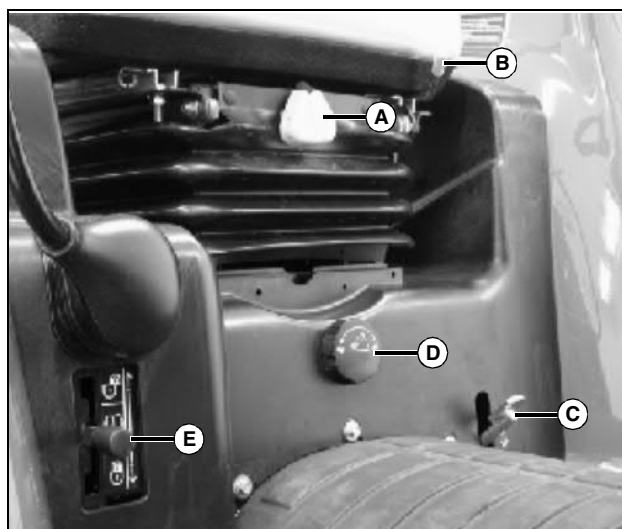


MX10758

Picture Note: SyncShift Model

- A - Operator Seat Height Adjustment Knob
- B - Operator Seat Adjustment Lever
- C - Rockshaft Rate-of-Drop Control Knob
- D - Differential Lock Lever
- E - Selective Control Valve (SCV) Lock Lever

Floor Panel Controls (Hydrostatic Model)



MX10684

- A - Operator Seat Height Adjustment Knob
- B - Operator Seat Adjustment Lever
- C - Differential Lock Lever
- D - Rockshaft Rate-of-Drop Control Knob
- E - Selective Control Valve (SCV) Lock Lever

Using Step



MX10705

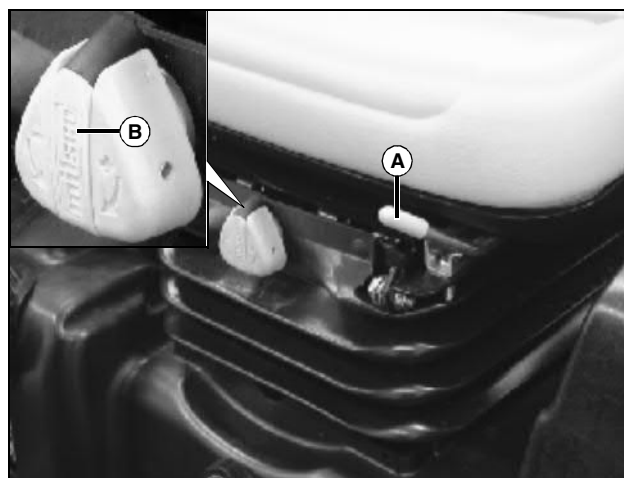
Step (A) is located on the left side of machine. Use step for entering and exiting the operator station.

Adjusting Seat

Before starting engine to operate machine, adjust operator seat position, height and suspension.

Adjusting Seat Position

1. Sit on the operator seat.



MX10691, MX10685

2. Move seat lever (A) to the left.
3. Slide seat forward or rearward to desired position.
4. Release lever to lock seat in position. Make sure all controls can be easily accessed.

Adjusting Seat Height and Tension

1. Flip out handle (B) on height adjustment knob.
 - Turn handle clockwise to raise operator seat and increase spring tension.
 - Turn handle counterclockwise to lower operator seat

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