

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

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**Compact Utility Tractor**  
**790**

OMLVU15440 B4

**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

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## 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 attachment, use the safety and operating information in the attachment operator's manual along with the machine operator's manual to operate the attachment safely and correctly.

This manual and safety signs on your machine may also be available in other languages (see your authorized 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.***

## Attachments for Your Machine

There's a John Deere attachment or kit to make your new machine perform more tasks or be more versatile, whether your machine is a lawn tractor or compact utility tractor or a utility vehicle.

You can check out the entire line of attachments for your machine at [JohnDeere.com](http://JohnDeere.com) or ask your John Deere dealer. From aerators to electric lift kits to tillers, there's a John Deere attachment or kit to fill every need.

# PRODUCT IDENTIFICATION

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## Record Identification Numbers

### Compact Utility Tractor

790 PIN (790001 - )

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

You will need to locate the model and serial number for the machine and for the engine of your machine and record the information in the spaces provided below.

DATE OF PURCHASE:

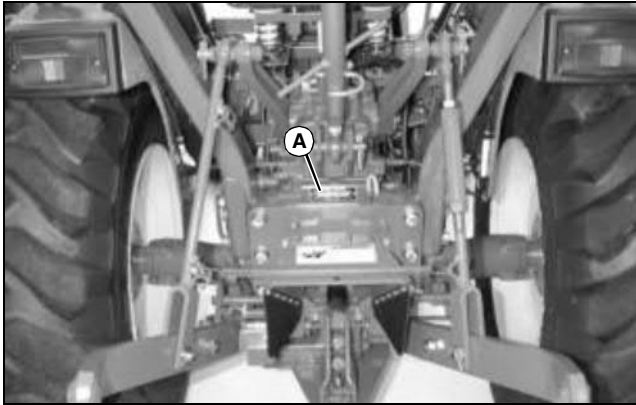
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DEALER NAME:

\_\_\_\_\_

DEALER PHONE:

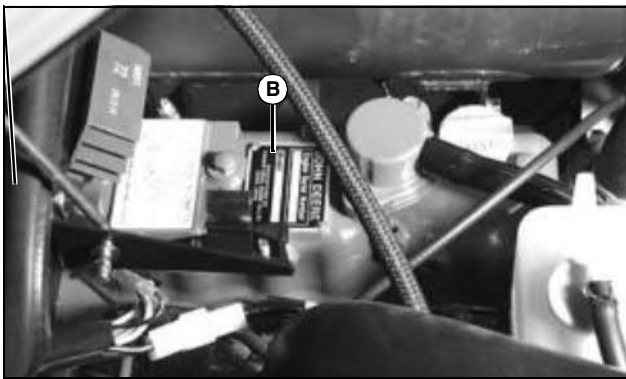
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MX17837

PRODUCT IDENTIFICATION NUMBER (A):

-----



MX17434

ENGINE SERIAL NUMBER (B):

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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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Consumer Equipment Division  
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OMLVU15440 B4 - English

# SAFETY LABELS

## Understanding The Machine Safety Labels



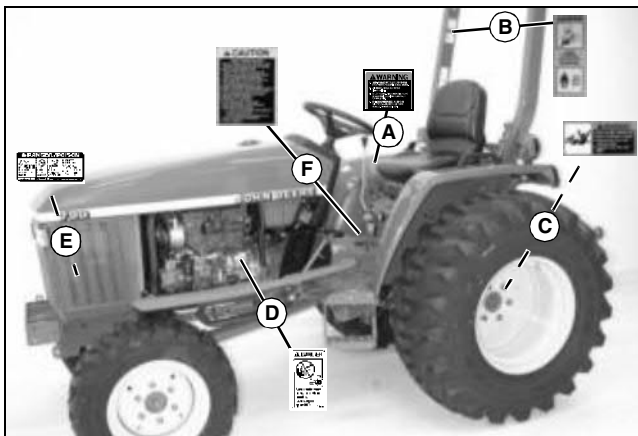
Safety-Alert Symbol

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.

## Safety Labels



MX15437

### WARNING (A)

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 LIFTING PARK BRAKE LEVER TO THE UP POSITION.
4. TO DISENGAGE BRAKES, MOVE PARK BRAKE

LEVER TO THE DOWN POSITION, DEPRESS BRAKE PEDALS TO RELEASE LOCK.

### WARNING: AVOID CRUSHING (B)

Do not jump if machine tips.

USE SEAT BELT

### WARNING: AVOID INJURY FROM PTO (C)

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

### DANGER (D)

Start only from seat in park or neutral.

Starting in gear kills.

### DANGER/POISON (E)

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


### CAUTION: HELP AVOID INJURY (F)

- Avoid turns, rough terrain and slopes that may cause tip over.
- Roll-over protective structure (ROPS) should be installed unless prohibited by low clearance operation.
- Use seat belt unless machine is operated without ROPS.
- Use recommended ballast.
- Stay clear of power driven parts.
- Keep children and others away.
- Look behind before backing.
- Never carry riders.
- Know all controls.
- Latch brakes together for transport and parking.
- Before leaving seat:
  - Lower attachment/implement.
  - Lock park brake.
  - Stop engine and remove key.

# SAFETY LABELS

- Read operator's manual for training.

## Emission Control System Certification Label

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 : EW
FUEL RATE : [ ] KW/STROKE @ [ ] KW/L [ ] RPM	
REFER OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS	
YANMAR DIESEL ENGINE	
Co., Ltd.	



**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.**

<sup>1</sup> Equipment moved at least once every 12 months.

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# SAFETY

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## 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 untrained adults.
- 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 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

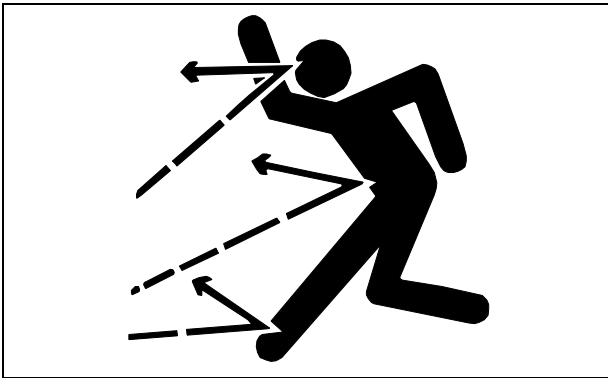
- Only allow responsible adults, who are familiar with the instructions to operate the machine. Local regulations may restrict the age of the operator.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields 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 brakes 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 the machine and inspect it. 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 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 provided on machine.
- 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.
- Use care when loading or unloading the machine into or off of a trailer or truck.
- 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.

# SAFETY

## Checking Mowing Area



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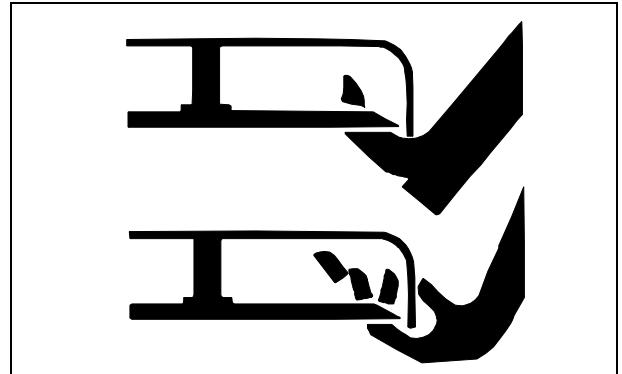
- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job.
- Clear mowing area of objects that might be thrown. Keep people and pets out of mowing area.
- Low-hanging branches and similar obstacles can injure the operator or interfere with 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.

## Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage PTO and stop attachments.
3. Lower attachments to the ground.
4. Lock park brake.
5. Stop engine.
6. Remove key.
7. Wait for engine and all moving parts to stop before you leave the operator's station.
8. Close fuel shut-off valve, if your machine is equipped.
9. Disconnect the negative (-) battery cable before servicing the machine.

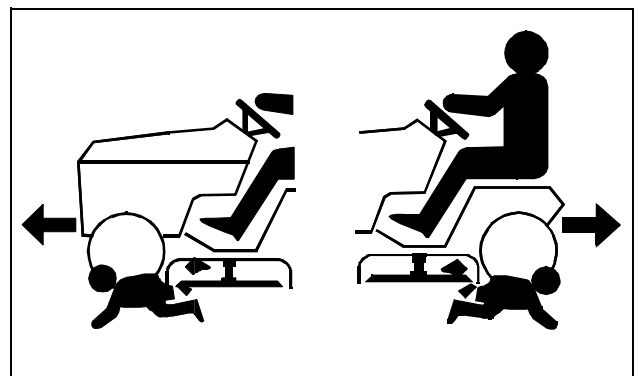
## Rotating Blades are Dangerous

HELP PREVENT SERIOUS OR FATAL ACCIDENTS:



- Rotating blades can cut off arms and legs, and throw objects. Failure to observe safety instructions could result in serious injury or death.
- 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, stop mower blades or attachments 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 leaving the operator's station for any reason including emptying the catchers or unplugging the chute.

## Protect Children

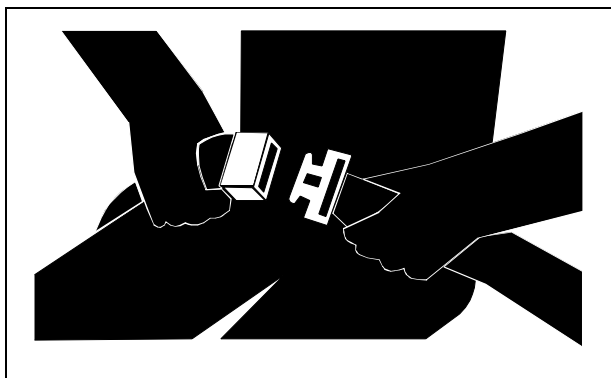


- Death or serious injury can occur when young children associate having fun with a lawn mowing machine simply because someone has given them a ride on a machine.

# SAFETY

- Young children are attracted to lawn mowing machines and mowing activities. They don't understand the dangers of rotating blades or the fact that the operator is unaware of their presence.
- Tragic accidents with children can occur if the operator is not alert to the presence of children, especially when a child approaches a machine from behind. Before backing up, stop mower blades and look down and behind the machine carefully, especially for children.
- Never carry children on a machine or attachment, even with the blades off. Do not tow children in a cart or trailer. They can fall off and be seriously injured or interfere with safe machine operation.
- Never use the machine as a recreational vehicle or to entertain children.
- Do not let children or an untrained person operate the machine. Instruct all operators not to give children a ride on the machine or in an attachment.
- Keep children indoors, out of the mowing area, and under the watchful eye of a responsible adult when a mower is being operated.
- Stay alert to the presence of children. Never assume that children will remain where you last saw them. Turn the machine off if a child enters the work area.

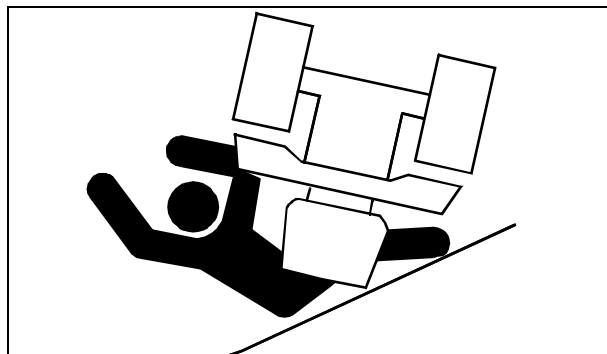
## Use Seat Belt Properly



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 folding ROPS in the folded position.

## Avoid Tipping



- 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 operate on 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.
- 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, embankments, as well as ponds and other bodies of water. The machine could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Follow the manufacturer's recommendations for wheel weights or counterweights for added stability when operating on slopes or using front or rear mounted attachments. Remove weights when not required.
- 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.
- Do not stop when going up hill or down hill. If machine stops going up hill, back down slowly.
- Operating machine when grass is wet can cause reduced traction and sliding.

# SAFETY

## Keep Riders Off



MIF

- 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.

## Towing Loads Safely

- Stopping distance increases with speed and weight of towed load. Travel slowly and allow extra time and distance to stop.
- Total towed weight must not exceed combined weight of pulling machine, ballast and operator. Use counterweights or wheel weights as described in the attachment or pulling machine operator's manual.
- Excessive towed load can cause loss of traction and loss of control on slopes. Reduce towed weight when operating on slopes.
- Never allow children or others in or on towed equipment.
- Use only approved hitches. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the approved hitch point.
- Follow the manufacturer's recommendations for weight limits for towed equipment and towing on slopes.
- If you cannot back up a slope with a towed load, the slope is too steep to operate on with the towed load. Reduce the towed load or do not operate.
- Do not turn sharply. Use additional caution when turning or operating under adverse surface conditions. Use care when reversing.
- Do not shift to neutral and coast downhill.

## Stay Clear of Rotating Drivelines



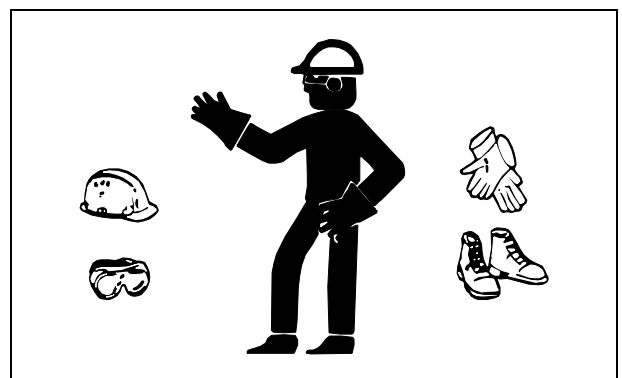
Entanglement in rotating driveline can cause serious injury or death.

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

## Checking Wheel Hardware

- A serious accident could occur causing serious injury if wheel hardware is not tight.
- Check wheel hardware 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



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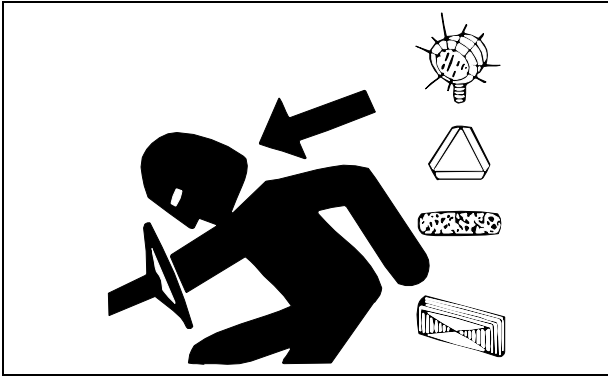
- Always wear safety goggles, or safety glasses with side shields, and a hard hat when operating the machine.
- Wear close fitting clothing and safety equipment appropriate for the job.
- While mowing, always wear substantial footwear and

# SAFETY

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.

## Driving Safely on Public Roads



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

- Use safety lights and devices. Slow moving machines when driven on public roads are hard to see, 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.
- 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. Wait for all movement to stop on machine before adjusting, cleaning or repairing.
- Keep safety devices in place and in working condition. Keep hardware tight.
- On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower any attachments to the ground before cleaning or 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. Disconnect negative terminal first and positive last. Install positive terminal first and negative last.
- Before servicing machine, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- 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.
- Use care when checking blades. Wrap blades or wear gloves and use caution when servicing them. Only replace blades. Never straighten or weld them.
- 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.
- 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.
- Check park brake operation frequently. Adjust and service as needed.

# SAFETY

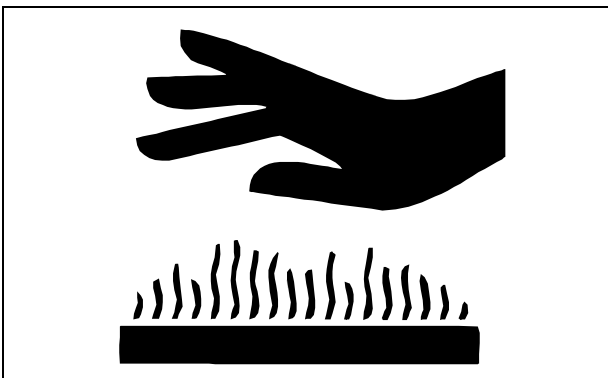
## Avoid High Pressure Fluids



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- 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



- Keep mower free of grass, leaves, or other debris build-

up. To reduce fire hazard, keep engine, engine compartment, and area around battery free of grass, leaves, or excessive grease.

- Remove grass and debris from engine compartment and muffler area, before and after operating machine, especially after mowing or mulching in dry conditions.
- Clean up oil or fuel spillage.
- 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.
- Always shut off fuel when storing or transporting machine, if the machine has a fuel shutoff.

## Tire Safety



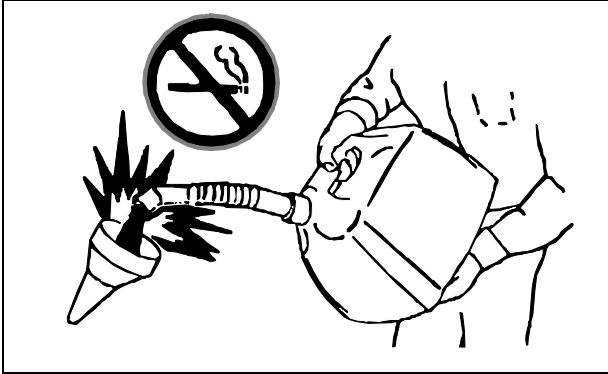
Explosive separation of a tire and rim parts can cause serious injury or death:

- 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.

# SAFETY

## Handling Fuel Safely

Fuel and fuel vapors are highly flammable and explosive:

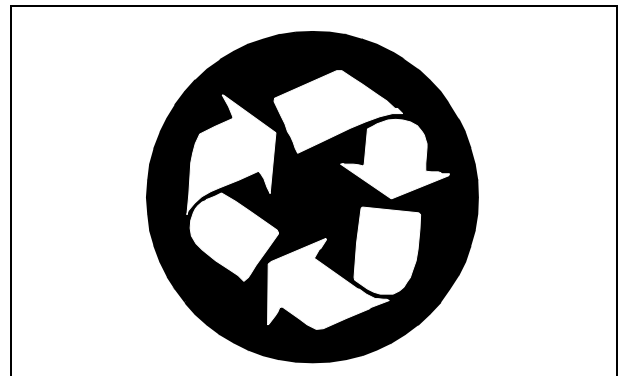


- Use extra care when handling gasoline and other fuels.
- Use only an approved container.
- Never remove gas cap or add fuel with the engine running. Allow the engine to cool before refueling. Do not smoke.
- Never refuel or drain the machine indoors. Move machine outdoors and provide adequate ventilation.
- Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Replace all fuel tank and container caps securely.
- Prevent fires. Clean up spilled fuel immediately. If fuel is spilled on clothing, change clothing immediately. Do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.
- 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 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.

## 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 authorized 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**

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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

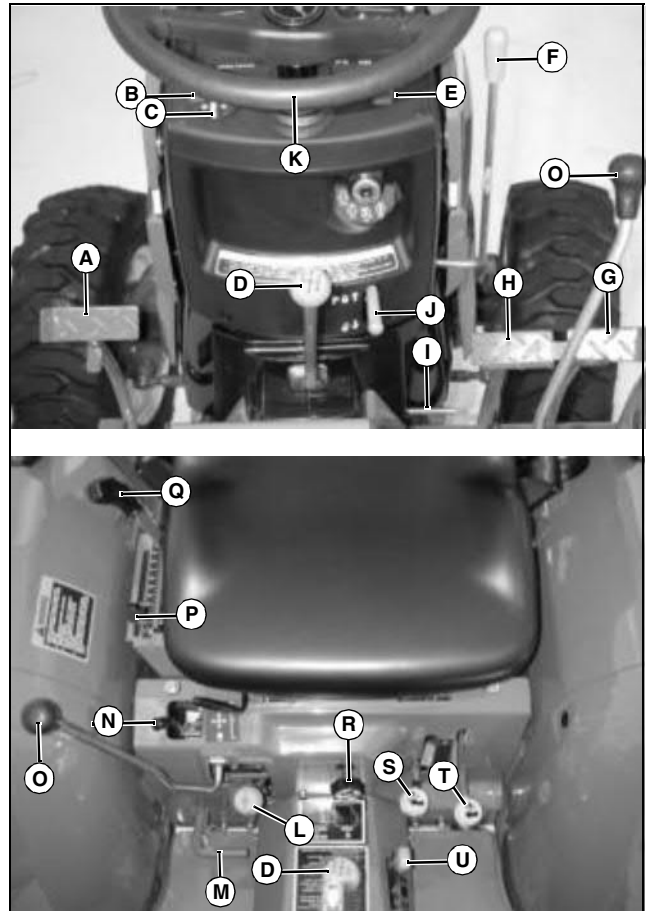
## Daily Operating Checklist

- Test safety systems.
- 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.
- Check wheel bolt torque.

## 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 Controls



MX10778, MX10779

- A - Clutch Pedal
- B - Light Switch
- C - Turn Signal Switch
- D - Transmission Gear Shift Lever
- E - Hazard Light Switch
- F - Engine Speed Hand Throttle
- G - Right Turn Brake Pedal
- H - Left Turn Brake Pedal
- I - Engine Speed Foot Throttle
- J - Park Brake Lever
- K - Steering Wheel
- L - Transmission Range Shift Lever
- M - Differential Lock Lever
- N - Optional Selective Control Valve (SCV) Lock Lever
- O - Optional Selective Control Valve (SCV) Lever
- P - Rockshaft Adjustable Depth Stop Knob
- Q - Rockshaft Control Lever
- R - Rockshaft Rate-of-Drop Control Knob
- S - Rear PTO Control Lever

# OPERATING

T - Mid PTO Control Lever

U - Optional Front Wheel Drive (MFWD) Lever

## Using Step



MX17838

The step is located on left side of machine.

## Adjusting Seat



MX15435

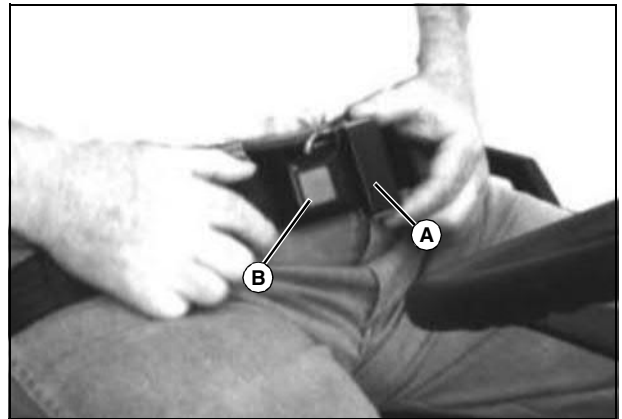
1. Move seat positioning lever (A) up.
2. Slide seat forward or rearward to desired position where all controls can be easily reached.
3. Release lever to lock seat in position.

## Using Seat Belt



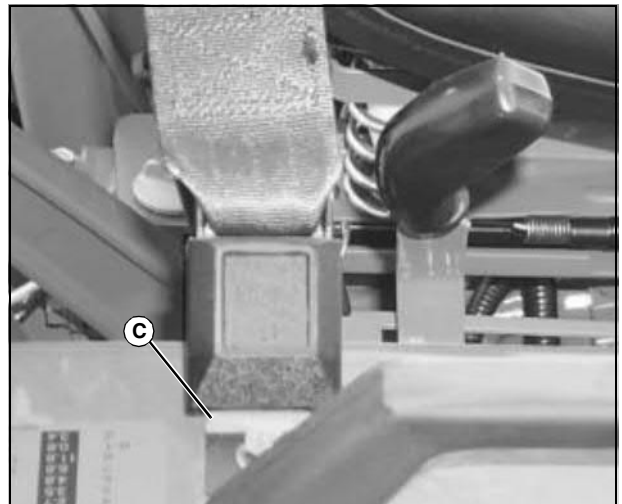
**CAUTION: Avoid injury! Always wear seat belt when operating machine with folding ROPS in upright position. Do not jump from machine if machine tips.**

**Do not use a seat belt if operating without a ROPS, or with a folding ROPS in the folded position. Raise ROPS and use seat belt as soon as conditions permit.**



M61567

1. Adjust seat belt (A) for proper fit and connect as shown. Listen for a click when inserted properly into latch. To release seat belt, press button (B).

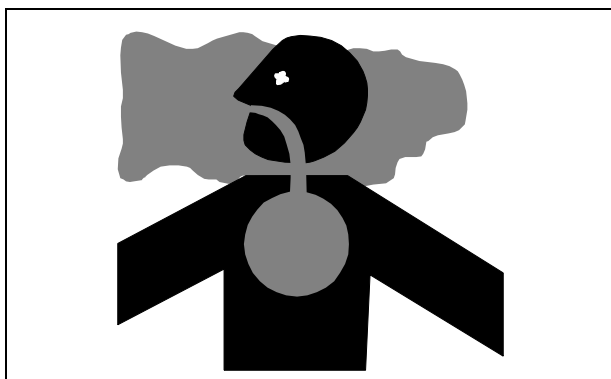


M97695

2. When the seat belt is not being used, push ends of seat belt onto holders (C) located on both fenders.

# OPERATING

## 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 Seat Switch

1. Sit on operator's seat.
2. Lock park brake.
3. Push the rear and mid-PTO knobs to the disengaged/off position.
4. Depress clutch pedal completely and move the transmission range and gear shift levers into the N (neutral)

position.

5. Start machine engine. Set engine speed at 1500 rpm.
6. Depress clutch pedal completely and:
  - Move the transmission gear shift lever to any position other than N (neutral) position.
7. Raise up from operator's seat while depressing clutch pedal completely.
8. Engine should stop.
9. Turn key switch to off position and move transmission gear shift lever to the N (neutral) position.

## Testing Neutral Start Switch

1. Sit on operator's seat.
2. Lock park brake.
3. Push the rear and mid-PTO knobs to the disengaged/off position.
4. Depress clutch pedal completely and:
  - Move the transmission range shift lever to the N (neutral) position.
  - Move the transmission gear shift lever to any position other than N (neutral) position.
5. Turn key switch to start position.
  - Engine must not crank.
6. Turn key switch to off position and move transmission gear shift lever to the N (neutral) position.

## Testing Rear PTO Knob

1. Sit on operator's seat.
2. Lock park brake.
3. Push the rear and mid-PTO knobs to the disengaged/off position.
4. Depress clutch pedal completely and move the transmission range and gear shift levers to the N (neutral) position.
5. Pull the rear PTO knob to the engaged/on position.
6. Turn key switch to start position.
  - Engine must not crank.
7. Push the rear PTO knob to the disengaged/off position.
8. Turn key switch to off position.



**Suggest:**

**If the above button click is invalid.**

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**first, and then click the above link**

**to download the complete manual.**

**Thank you so much for reading**

# OPERATING

## Testing Rear PTO/Seat Switch Interface

1. Sit on operator's seat.
2. Lock park brake.
3. Push the rear and mid-PTO knobs to the disengaged/off position.
4. Depress clutch pedal completely and:
  - Move the transmission range and gear shift levers into the N (neutral) position.
5. Start machine engine.
6. Release clutch pedal.
7. Pull the rear PTO knob to the engaged/on position.
8. Raise up from operator's seat. Do not dismount machine.
9. Engine should stop. Engine shut-off solenoid must de-energize in 1/2 second, causing the engine to stop.
10. Push the rear PTO knob to the disengaged/off position.
11. Turn key switch to off position.

## Testing Mid-PTO/Seat Switch Interface

1. Sit on operator's seat.
2. Lock park brake.
3. Push the rear and mid-PTO knobs to the disengaged/off position.
4. Depress clutch pedal completely and:
  - Move the transmission range and gear shift levers into the N (neutral) position.
5. Start machine engine. Set engine speed at 1500 rpm.
6. Release the clutch.
7. Raise up from operator's seat. Do not dismount machine.
8. Pull the mid-PTO knob to the engaged/on position.
9. Pull the rear PTO knob to the engaged/on position.
10. Engine should begin to stop.

## Testing Rear PTO/Park Brake Interface

1. Sit on operator's seat.
2. Lock park brake.
3. Push the rear and mid-PTO knobs to the disengaged/off position.
4. Depress clutch pedal completely and:

- Move the transmission range and gear shift levers into the N (neutral) position.
5. Start machine engine. Set engine speed at 1500 rpm.
  6. Release clutch pedal.
  7. Raise up from operator's seat. Do not dismount machine.
  8. Pull the rear PTO knob to the engaged/on position.
    - Rear PTO should operate.
  9. Unlock park brake.
  10. Engine should begin to stop.

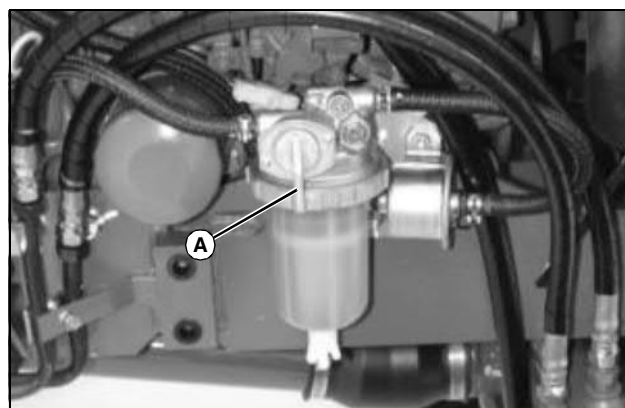
## Using Fuel Shut-Off Valve



**CAUTION: Avoid injury! Close fuel shut-off valve when performing any type of engine service, during transport of the machine, and during storage.**

This engine is equipped with a two position fuel shut-off valve. Close the valve when performing any type of engine service, during transport of the machine, and during storage.

1. Raise and latch hood in the open position.
2. Remove right side panel.



MX17839

3. Open or close fuel shut-off valve lever (A) as required:
  - Open Valve: Rotate valve lever to the ON (vertical) position.
  - Close Valve: Rotate valve lever to the OFF (horizontal) position.

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