

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

---

**Compact Utility Tractors**  
**4105**

OMLVU19957 J7

**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.

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# 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

4105 PIN (100001 -)

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:

\_\_\_\_\_



MX25812

PRODUCT IDENTIFICATION NUMBER (A):

-----



MX25813

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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OMLVU19957 J7 - English

# SAFETY LABELS



## Understanding The Machine Safety Labels

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.

### DANGER

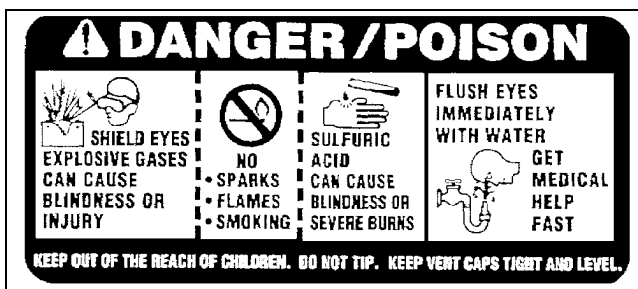


T146103

Start only from seat in park or neutral.

Starting in gear kills.

### DANGER/POISON



M88249

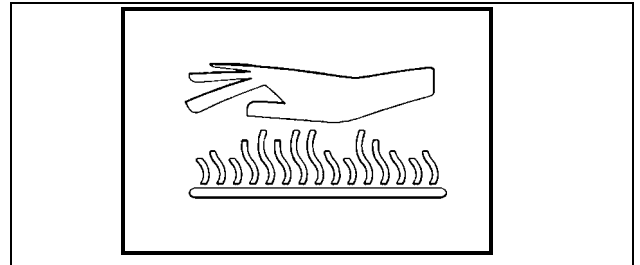
**KEEP OUT OF REACH OF CHILDREN. DO NOT TIP. KEEP VENT CAPS TIGHT AND LEVEL.**

- 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.

### CAUTION HOT SURFACE

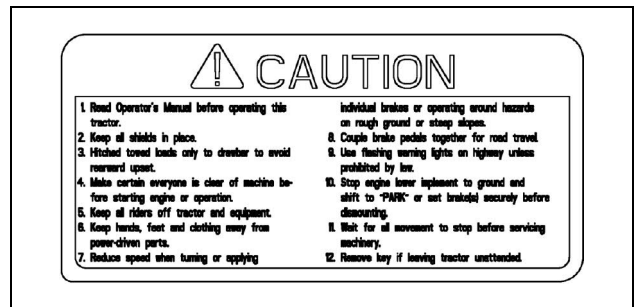


**Picture Note: Located on muffler.**

**NOTE: No-text warning molded into muffler.**

Do not touch engine muffler, it may be hot.

### CAUTION READ OPERATORS MANUAL



LVU10708

1. Read Operator's Manual before operating this tractor.
2. Keep all shields in place.
3. Hitched 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 tractor 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 lever in place to ground and shift to "PARK" or set brakes securely before dismounting.
11. Wait for all movement to stop before servicing machinery.
12. Remove key if leaving tractor unattended.

# SAFETY LABELS

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 tractor unattended.

## WARNING



LVU10707a

**AVOID CRUSHING. Do not jump if machine tips.**

- USE SEAT BELT.

## WARNING ROPS

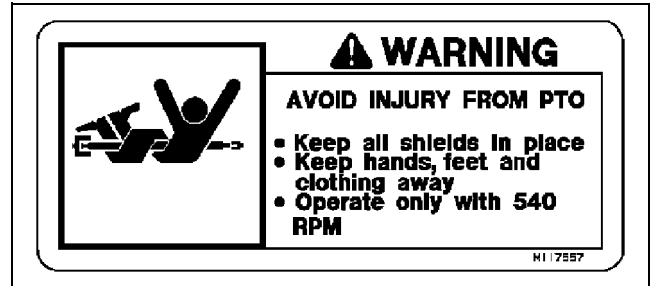


R141735

**Picture Note: Located on inside of right side of ROPS.**

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

## WARNING

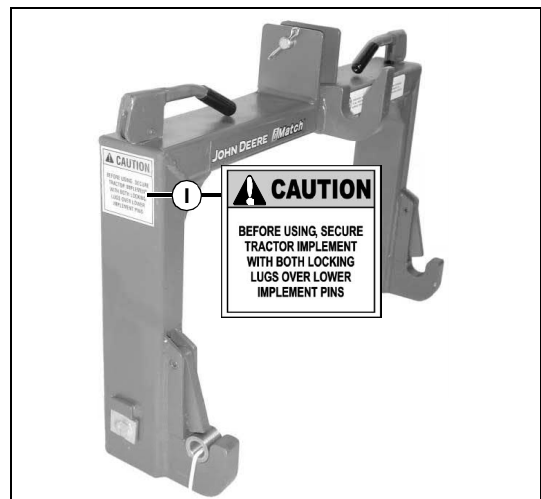


M117557

**AVOID INJURY FROM PTO.**

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

## CAUTION iMatch



MX10750, LVU13502

**Picture Note: Optional iMatch quick-attach hitch.**

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

# SAFETY LABELS

## Emission Control System Certification Label

IMPORTANT ENGINE INFORMATION	
THIS ENGINE CONFORMS TO <input type="checkbox"/> MODEL YEAR U. S. EPA REGULATIONS NONROAD COMPRESSION IGNITION ENGINES.	
THIS ENGINE IS CERTIFIED TO OPERATE ON "US-2D" FUEL	
ENGINE FAMILY : <input type="checkbox"/>	DISPLACEMENT : <input type="checkbox"/> LITERS
ENGINE MODEL : <input type="checkbox"/>	EMISSION CONTROL SYSTEM : EM
FUEL RATE : <input type="checkbox"/> MM <sup>3</sup> /STROKE @ <input type="checkbox"/> KW/ <input type="checkbox"/> RPM	
REFER OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS	
<b>YANMAR</b> YANMAR 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.**

1. Equipment moved at least once every 12 months.

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# SAFETY

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## Operator Training Required

- Read the operator's manual and other training material. If the operator or mechanic cannot read English, it is the owner's responsibility to explain this material to them. This publication is available in other languages.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- All operators and mechanics should be trained. The owner of the machine is responsible for training the users.
- Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people, or property.
- Operate the machine in an open, unobstructed area under the direction of an experienced operator.

## 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.
- A storage location is provided on the machine for the operator's manual. Keep the manual stored securely in this location when not in use and show other operators of this machine where the operator manual is located.
- 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.
- 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.
- 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.
- Do not leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- 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.
- Slow down and be careful of traffic when operating near or crossing roadways. 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.

## Using a Spark Arrestor

The engine in this machine is not equipped with a spark arrestor muffler. It is a violation of California Public Resource Code Section 4442 to use or operate this engine on or near any forest-covered, brush-covered or grass-covered land unless the exhaust system is equipped with a spark arrestor meeting any applicable local or state laws. Other states or federal areas may have similar laws.

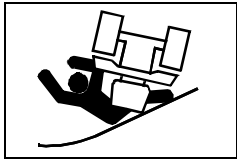
A spark arrestor for your machine may be available from your authorized dealer. An installed spark arrestor must be maintained in good working order by the operator.

## 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.

# SAFETY

9. Disconnect the negative (-) battery cable before servicing the machine.

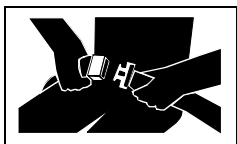


## Avoid Tipping

• Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. Operation on all slopes

requires extra caution.

- Be aware that mechanical front wheel drive (MFWD) can improve access to dangerously sloped terrain, thereby increasing the possibility of a tipover.
- Drive up and down a hill - not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Do not operate machine on wet grass. Tires may lose traction. Tires may lose traction on slopes even though the brakes are functioning properly.
- Choose a low ground speed so you will not have to stop or shift while on a slope.
- Always keep the machine in gear when going down slopes. Do not shift to neutral and coast downhill.
- Avoid starting, stopping or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly, straight down the slope.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Do not operate machine near drop-offs, ditches, embankments, or bodies of water. The machine could suddenly roll over if a wheel goes over the edge or the edge caves in. Leave a safety area between the machine and any hazard.
- Danger of tipping is increased greatly with tires in narrow tread setting and driving at high speed.
- 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.



## Use Seat Belt Properly

• Use a seat belt when operating with the folding Roll-Over Protective Structure (ROPS) in the upright position to minimize chance of injury

from an accident, such as an overturn.

- Do not use a seat belt when operating with the folding ROPS in the folded position. Return the folding ROPS to the upright position as soon as possible.
- Never modify, disassemble or attempt to repair the seat belt.
- Replace entire seat belt if mounting hardware, buckle, belt, or retractor show signs of damage.
- Inspect seat belt and mounting hardware at least once a year. Look for signs of loose hardware or belt damage, such as cuts, fraying, extreme or unusual wear, discoloration, or abrasion. Replace only with John Deere-approved replacement parts.
- Layers of heavy clothing can interfere with proper positioning of the seat belt and can reduce the effectiveness of the seat belt.

## Keep ROPS Installed Properly

- Never operate the machine without the ROPS installed.
- Make certain all parts of the ROPS are installed correctly if the ROPS structure is loosened or removed for any reason. All ROPS hardware should be tightened to the proper torque per manufacturer's recommendations.
- Any alteration of the ROPS must be approved by the manufacturer. The protection provided by the ROPS will be impaired if the ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting.
- The seat is part of the ROPS safety zone. Replace only with John Deere-approved seat.
- Never attempt to repair a damaged or altered ROPS. It must be replaced to maintain the manufacturer's certification of the structure.



## Keep Riders Off

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

## Towing Loads Safely

- Stopping distance increases with speed and weight of towed load. Travel slowly and allow extra time and distance

# SAFETY

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.



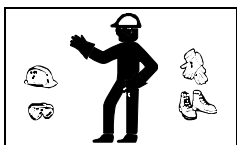
## Stay Clear of Rotating Drivelines

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.



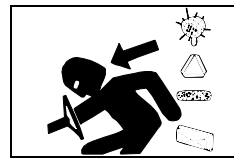
## Wear Appropriate Clothing

• 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.



## 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

- Only qualified, trained adults should service this machine. Understand service procedure before doing work.
- Never operate machine in a closed area where dangerous carbon monoxide fumes can collect.
- Keep all nuts and bolts tight, especially blade attachment bolts, to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage and remove any fuel-soaked debris. Allow the machine to cool before storing.
- Never make any adjustments or repairs with the engine running. Wait for all movement to stop on machine before adjusting, cleaning or repairing.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.
- 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.

# SAFETY

- Securely support any machine elements that must be raised for service work. Use jack stands or lock service latches to support components when needed.
- 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 or attachment, carefully release pressure from any components with stored energy, such as hydraulic components or springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers back and forth.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.
- 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.



## 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

- Remove grass and debris from engine compartment and muffler area, before and after operating machine.

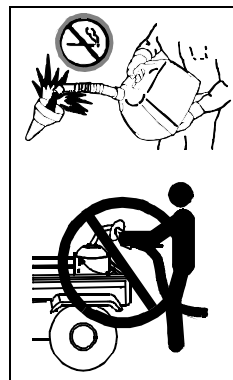
- Always shut off fuel when storing or transporting machine, if the machine has a fuel shutoff.
- Do not store machine near an open flame or source of ignition, such as a water heater or furnace.
- Check fuel lines, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.



## 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

To avoid personal injury or property damage, use extreme care in handling fuel. Fuel is extremely flammable and fuel vapors are explosive:

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only an approved fuel container. 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.
- Never remove the fuel tank cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never add fuel to or drain fuel from the machine indoors. Move machine outdoors and provide adequate ventilation.
- Clean up spilled fuel immediately. If fuel is spilled on clothing, change clothing immediately. If fuel is spilled near machine, do not attempt to start the engine but move the machine away from the area of spillage. Avoid creating any source of ignition until fuel vapors have dissipated.

# SAFETY

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- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliance.
- Prevent fire and explosion caused by static electric discharge. Static electric discharge can ignite fuel vapors in an ungrounded fuel container.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before fueling.
- Remove fuel-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a fuel dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until the fueling is complete. Do not use a nozzle lock-open device.
- Never overfill fuel tank. Replace fuel tank cap and tighten securely.
- Replace all fuel container caps securely after use.
- For gasoline engines, do not use gas with methanol. Methanol is harmful to your health and to the environment.

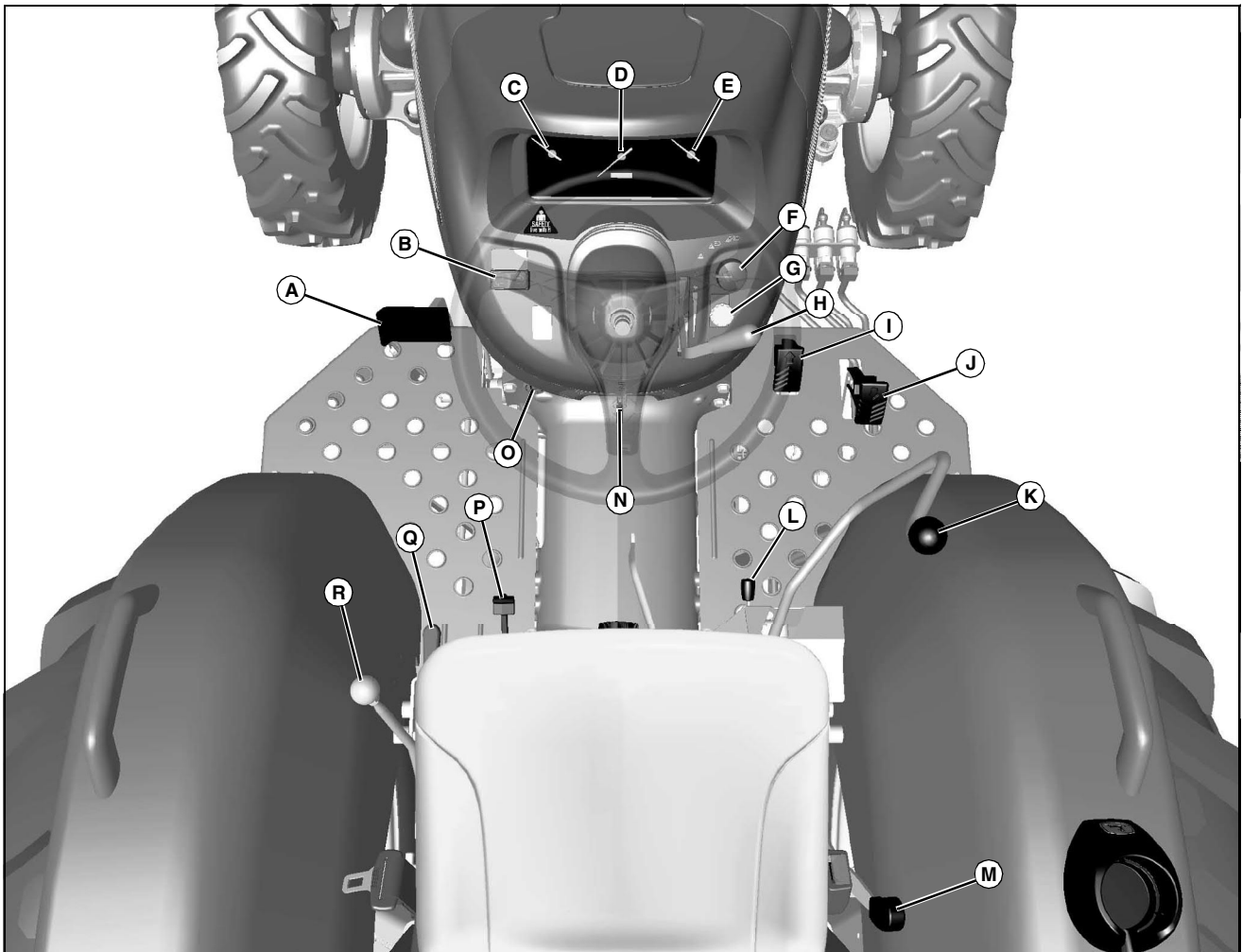
## Handling Waste Product and Chemicals

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 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 CONTROLS

## Operator Station Controls



MX39638

Key	Description
-----	-------------

- |   |                                  |
|---|----------------------------------|
| A | Brake Pedal                      |
| B | Turn Signal Switch               |
| C | Fuel Gauge                       |
| D | Tachometer                       |
| E | Engine Coolant Temperature Gauge |

- |   |                     |
|---|---------------------|
| F | Light Switch        |
| G | PTO Engagement Knob |
| H | Hand Throttle Lever |

- |   |                      |
|---|----------------------|
| I | Forward Travel Pedal |
|---|----------------------|

Operator Manual Holder (on ROPS - not shown)

Key	Description
-----	-------------

- |   |   |
|---|---|
| J | Reverse Travel Pedal                          |
| K | Dual Selective Control Valve (SCV) Lever      |
| L | Dual Selective Control Valve (SCV) Lock Lever |
| M | Rockshaft Control Lever                       |
| N | Ignition Key Switch                           |
| O | Park Brake Lock Knob                          |

- |   |                         |
|---|-------------------------|
| P | Differential Lock Pedal |
|---|-------------------------|

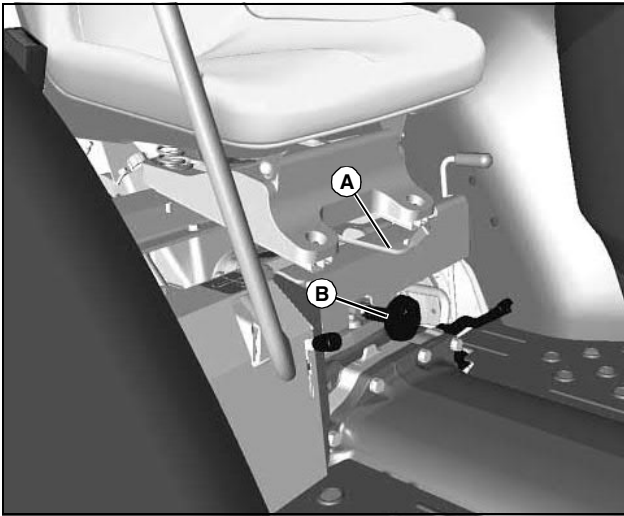
- |   |   |
|---|---|
| Q | Mechanical Front Wheel Drive (MFWD) Lever |
|---|---|

- |   |                                |
|---|--------------------------------|
| R | Transmission Range Shift Lever |
|---|--------------------------------|

# OPERATING CONTROLS

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## Floor Panel Controls



MX39693

**A - Seat Adjust Lever**

**B - Rockshaft Rate-of-Drop Control Knob**

# OPERATING

## Daily Operating Checklist

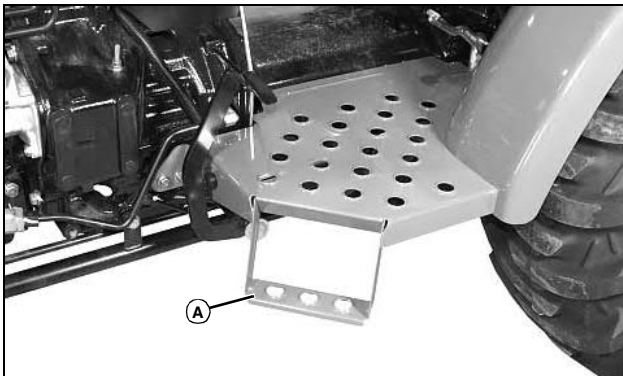
- Test safety systems. Perform safety interlock system checkout procedure.
- Check engine oil level.
- Check transmission oil level.
- Check air filter rubber dust unloading valve.
- Check radiator coolant level.

## 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.

## Entering and Exiting Machine

### Using Step

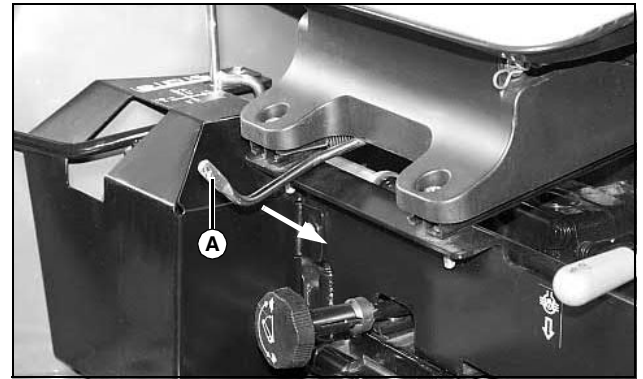


MX36756

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

## Adjusting Seat Position

1. Sit on the operator seat.



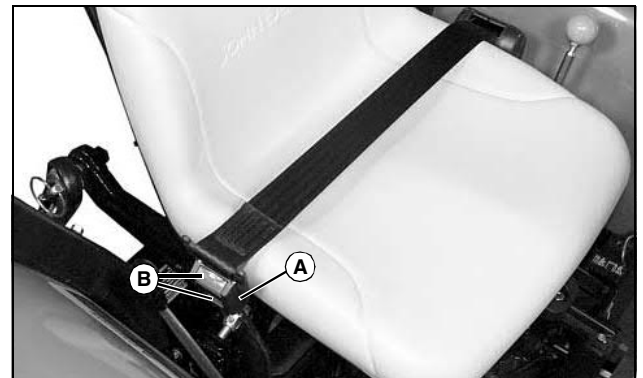
MX36757

2. Pull 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.

## Using Seat Belt



**CAUTION: Avoid injury! Always wear seat belt when operating machine with a Roll-Over Protective Structure (ROPS). Do not jump from machine if machine tips.**



MX36755

### Fasten Belt

1. Pull belt end across operator lap.
2. Install tab into buckle (A).
  - A click will be heard when the tab locks into the buckle.

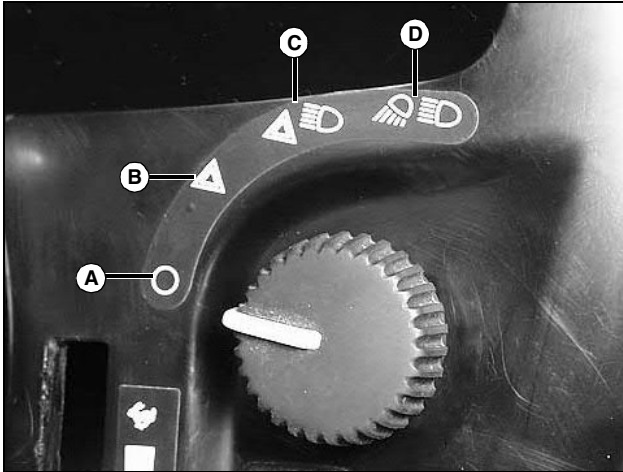
### Release Belt

1. Press red button (B) to release seat belt allowing the belt to retract.

# OPERATING

## Using Light Switch

**CAUTION: Avoid injury! Do not operate on roads with light switch in the field position. Rear work lights may blind or confuse operators of oncoming vehicles.**



MX32692

- A** - All lights off.
- B** - Warning flasher lights on.
- C** - Road Position: headlights, taillights, and warning flasher lights on.
- D** - Field Position: headlights, taillights, and optional working lights on.

With the key switch in the off position, you can view the hour meter in the instrument panel by turning the light switch to (B) or (C) position.

## Using Key Switch



MX32693

**A-Start Position** - Turn the key to the start position to start

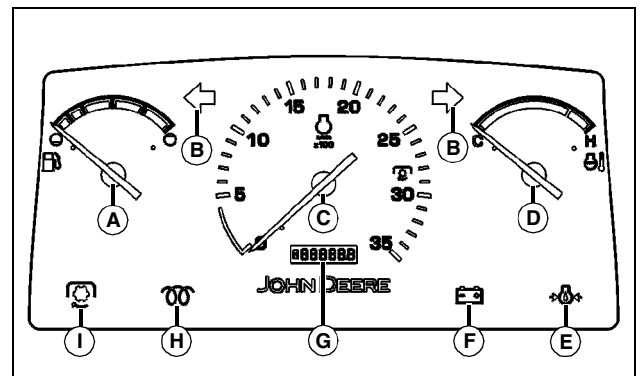
the engine. Release the key after the engine has started and it will automatically return to the run position. The engine will continue to run.

**B-Run Position** - With the key in the run position, and the engine not running, the engine oil pressure light and the battery discharging light should illuminate. Both lights should turn off when the engine is running. You will also hear a clicking noise when the engine fuel shut-off solenoid engages. With the key in the run position, push the key in to activate the air heater.

**C-Off Position** - With the key in the off position, all switched power is off, and the engine should not run.

**IMPORTANT: Avoid damage! There is an accessory key switch position (D) to the left of the key switch off position. Do not move the key switch to this position. The battery could be drained.**

## Using the Instrument Panel



MX36754

**A-Fuel Gauge:** Shows approximately how much fuel is in the fuel tank.

**B-Warning Flasher/Turn Signal Indicator Light:** These indicator lights will turn on and flash when the light switch is turned to one of the two warning flasher positions, or the turn signal switch is in the right or left hand turn position.

**C-Tachometer:** Shows engine speed in increments of 100 rpm. Example: If indicator is pointing at 20, then  $20 \times 100 = 2000$  rpm. Note the special PTO marker. At this engine speed, the PTO rotates at the industry standard 540 rpm.

**D-Engine Coolant Temperature Gauge:** This gauge will indicate the engine coolant temperature. When the needle is approaching or is in the red zone, reduce engine load immediately. Reduce engine rpm to idle speed and check for obstructions blocking airflow to the radiator. Clean grille, and if needle remains in red zone, stop engine immediately. Allow engine to cool, check coolant level, and add coolant if necessary.

# OPERATING

**E-Engine Oil Pressure Light:** This light should illuminate when the ignition key switch is in the run position and the engine is not running, and also when engine oil pressure is too low with the engine running. If this light illuminates while the engine is running, stop engine immediately.

**F-Alternator/Battery Discharging Light:** This light should illuminate when the ignition key switch is in the run position and the engine is not running. If this light does illuminate with the engine running, see your John Deere dealer.

**G-Hour Meter:** This display shows Total number of accumulated running hours. Use the hour meter as a guide when servicing various components of this machine.

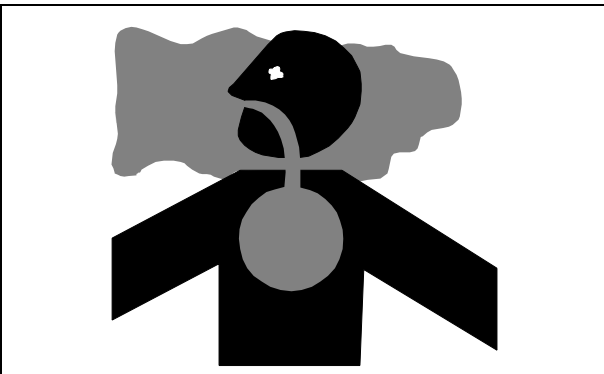
**H-Cold Start Indicator Light:** Indicates that the ignition key is being pressed in to allow heating of the intake air for faster starting in cold weather.

**I-PTO Engaged Light:** This light will illuminate when the PTO is engaged.

## Using Turn Signal Switch

- Push the left side of the turn signal switch down to signal a left turn.
- Push the right side of the turn signal switch down to signal a right turn.

## 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 Rear PTO Knob

1. Sit on operator's seat.
2. Lock park brake.
3. Move the transmission range lever to neutral.
4. Pull the PTO engagement knob to the engaged/on position.
5. Turn key switch to start position.
  - Engine must not crank.
6. Push the PTO engagement knob to the disengaged/off position.
7. Turn key switch to off position.

## Testing Rear PTO/Seat Switch Interface

1. Sit on operator's seat.
2. Lock park brake.
3. Push the PTO engagement knob to the disengaged/off position.

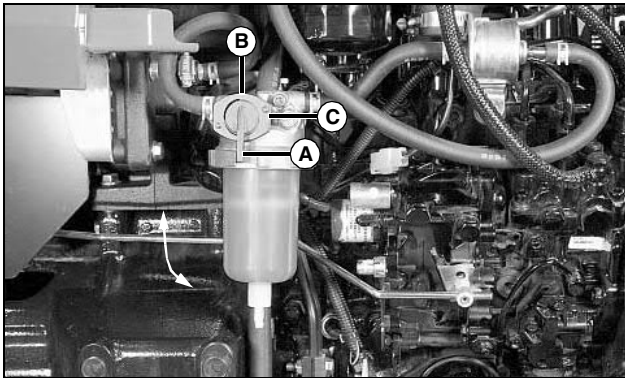
# OPERATING

4. Start machine engine. Set engine speed at 1500 rpm.
5. Pull the PTO engagement knob to the engaged/on position.
6. Raise up from operator's seat. Do not dismount machine.
7. Engine should stop.
8. Push the PTO engagement knob to the disengaged/off position.
9. Turn key switch to off position.

## Using Fuel Shut-Off Valve

Close the valve when performing any type of engine service, during transport of the machine, and during storage.

1. Locate the fuel shut-off valve on the right side of the machine on the fuel sediment filter.



MX36751

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

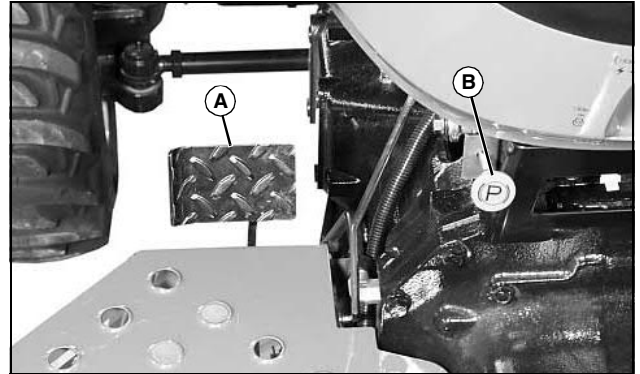
## Using Brake Pedal

Depress brake pedal to operate the brake.

## Using Park Brake

### Locking Park Brake:

**CAUTION: Avoid injury! Always lock park brake and move transmission range shift lever to a position other than N (neutral) before leaving machine unattended. Transmissions will not prevent machine motion without the park brake locked.**



MX36758

1. Fully depress brake pedal (A).
2. Pull park brake knob (B) out to the locked position.
3. Remove foot from brake pedal.

### Unlocking Park Brake:

1. Press down on brake pedal.
2. Push park brake knob in to the unlocked position.
3. Remove foot from brake pedal.

## Using Throttle Controls

Use the throttle lever to change engine speeds. Use the throttle in conjunction with the tachometer to set engine speeds.

- **Decrease Engine Speed** - Pull throttle lever down.
- **Increase Engine Speed** - Push throttle lever up.



**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

## Starting the Engine



**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.**

**NOTE: It is recommended to install optional engine block heater and hydraulic oil heater if operating machine in temperatures below -18° C (0° F).**

**If temperature is below 0° C (32° F), follow the cold weather starting steps in this section.**

1. Lock the park brake.
2. Push the PTO knob to the disengaged/off position.
3. Remove foot from forward and reverse travel pedals.



**CAUTION: Avoid injury! Check to be sure area is clear of any bystanders before lowering implements to the ground.**

4. Lower any rear mount implement to the ground by pushing the rockshaft control lever forward.
5. Lower any front mounted implement to the ground using the SCV lever.
6. Set hand throttle lever to the 1/3 fast position.
7. Turn ignition key switch to the run position.
8. Check instrument panel indicator lights:
  - Alternator/battery discharging light will illuminate.
  - Engine oil pressure light will illuminate.
9. For cold weather starting, use the intake air heater system. Activate the intake air heater system by pushing in the ignition key switch with the key, and holding it there for the required time:
  - 10 - 15 seconds for temperatures as low as -18°C (0°F).
  - 15 - 30 seconds for temperatures below -18°C (0°F).

**IMPORTANT: Avoid damage! Starter may be damaged if starter is operated for more than 20 seconds at a time:**

- **Wait two minutes before trying again if engine does not start.**

10. Turn key switch to the start position. Release key when engine starts.
11. Check instrument panel indicator lights:
  - Engine oil pressure light should go out within 5 seconds.
  - Alternator/battery discharging light should go out within 10 seconds.
12. Set engine speed at full throttle if indicator light does not go out after 10 seconds. If indicator light continues to stay on, stop the engine and check for cause.

**IMPORTANT: Avoid damage! In cold weather, run engine several minutes to allow engine oil and transmission oil to warm.**

**NOTE: It is normal for the engine to be louder and for blue-white exhaust smoke to be present during engine warm-up. The amount of exhaust smoke depends on air temperature.**

13. Warm the engine:
  - In warm weather, set hand throttle lever to the 1/2 fast position for 1 minute without load.
  - In cold weather, set hand throttle lever to the 1/2 fast position for 5 minutes without load.

## Idling the Engine

**NOTE: Allowing engine to idle for long periods of time will waste fuel and cause carbon build-up.**

1. Adjust hand throttle lever to set engine speed at slow idle.
2. Lock the park brake.

## Starting a Stalled Engine

**IMPORTANT: Avoid damage! If engine stalls while operating under load, start engine immediately to prevent abnormal heat build-up in engine.**

1. Disengage PTO.
2. Remove foot from forward travel and reverse travel pedals.

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