

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

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**Compact Utility Tractors**  
**4110 and 4115**

OMLVU13344 D2

**OPERATOR'S MANUAL**



**JOHN DEERE**

European 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 John Deere dealer to order).

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

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

RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (----->), the item referred to is hidden from view.

Before delivering this machine, your dealer performed a predelivery inspection to ensure best performance.

## Machine Use

This machine is designed solely for customary agricultural use, for park and amenity area maintenance and for winter work. Use in any other way is considered as contrary to the intended use.

The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified

by the manufacturer also constitute essential elements for the intended use.

This machine should be operated, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times.

Setting fuel delivery beyond published factory specifications or otherwise overpowering will result in loss of warranty protection for this machine.

Any arbitrary modifications carried out on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

## 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

**4110** PIN (110001- )

**4115** PIN (110001- )

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:

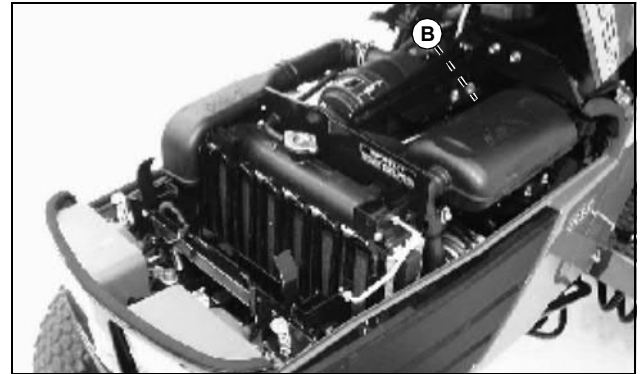
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DEALER NAME:

\_\_\_\_\_

DEALER PHONE:

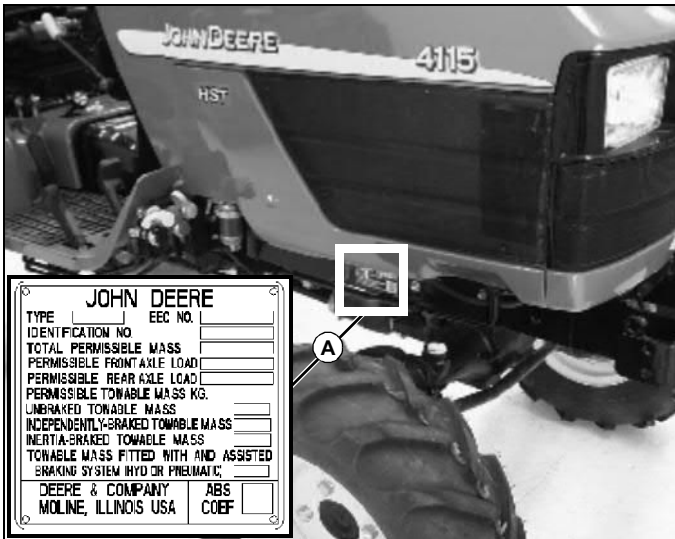
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MX9180

ENGINE SERIAL NUMBER (B):

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MX9181

PRODUCT IDENTIFICATION NUMBER (A):

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Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

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OMLVU13344 D2 - English

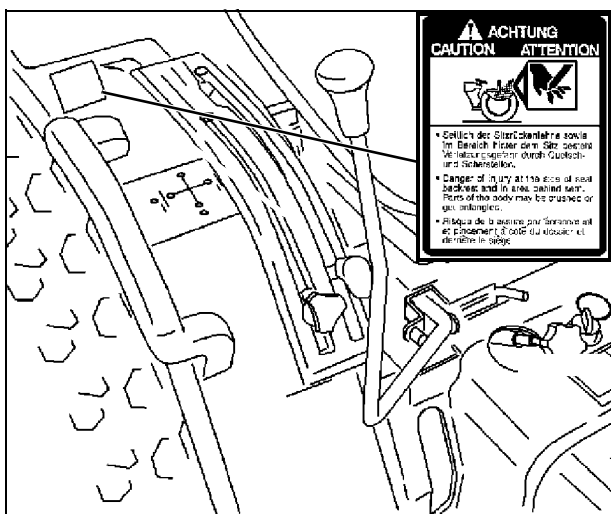
# SAFETY

## Pictorial Safety Signs



At several important places on this machine safety signs are affixed intended to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury. These safety signs, their placement on the machine and a brief explanatory text are shown in this Safety Signs section.

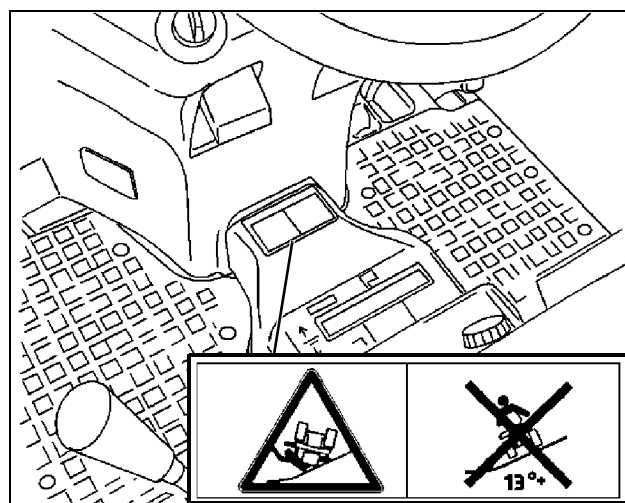
## CAUTION



MX8979a

Danger of injury at the side of seat backrest and in area behind seat. Parts of the body may be crushed or get entangled.

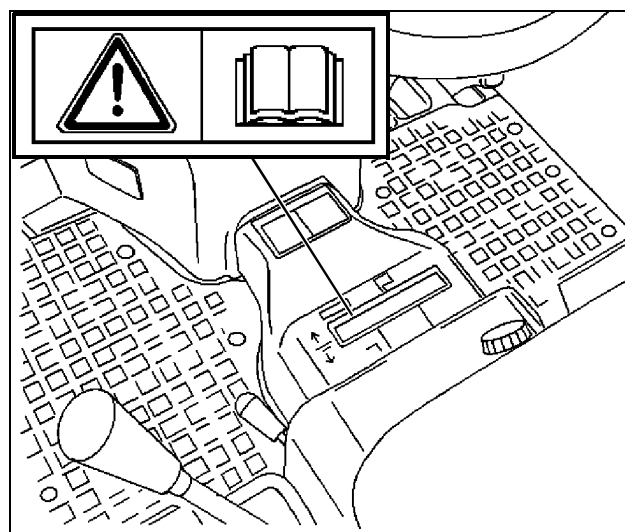
## WARNING



MX8078a

Do not drive where tractor could slip or tip. Do not drive on a slope with more than a 13° incline.

## CAUTION



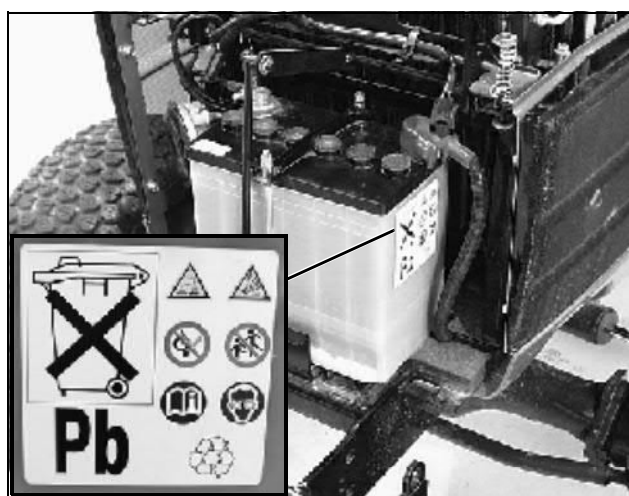
MX8078a

1. Read operator's manual before operating this tractor.
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 tractor and equipment.
6. Keep hands, feet and clothing away from power-driven parts.

# SAFETY

7. Reduce speed when turning or applying individual brakes or operating around hazards, on rough ground or steep slopes.
8. Use flashing warning lights on highway unless prohibited by law.
9. Stop engine, lower implement to ground, shift to "N" neutral and set park brake securely before dismounting.
10. Wait for all movement to stop before servicing machinery.
11. Remove key if leaving tractor unattended.

## DANGER/POISON



MX9105

**Picture Note: Front grille removed to illustrate photo clarity.**

BATTERY POSTS, TERMINALS AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPONENTS, CHEMICALS KNOWN TO CAUSE CANCER AND REPRODUCTIVE HARM. **PROPERLY DISPOSE OF BATTERIES.**

SHIELD EYES: EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.

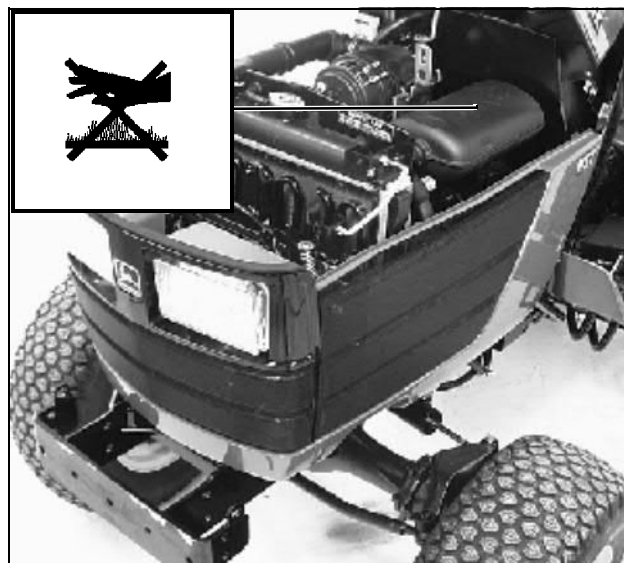
NO SPARKS, FLAMES, SMOKING.

SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS.

FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL ATTENTION FAST.

KEEP OUT OF REACH OF CHILDREN. DO NOT TIP. DO NOT OPEN BATTERY.

## CAUTION: HOT SURFACE



MX8079

**Picture Note: No-text warning molded into muffer.**

Do not touch engine muffer, it may be very hot.

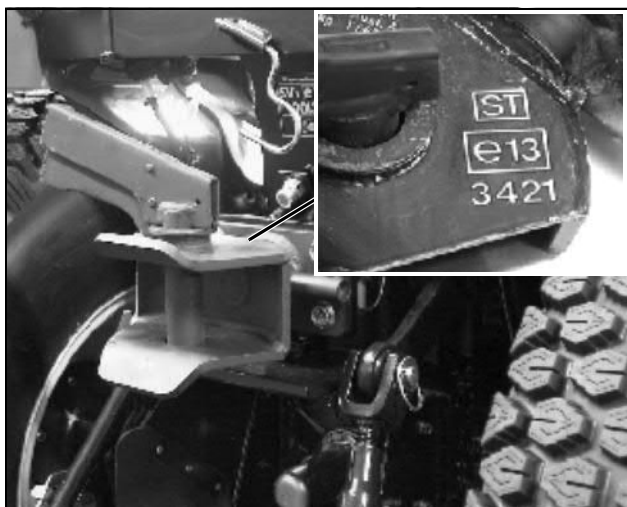
## DRAWBAR EEC LABEL



MX9107

# SAFETY

## WAGON HITCH EEC INFORMATION



MX9128, M72571

Picture Note: Information stamped into top of hitch

## ROLLOVER PROTECTION CERTIFICATION PLATE



MX9128, MX8498

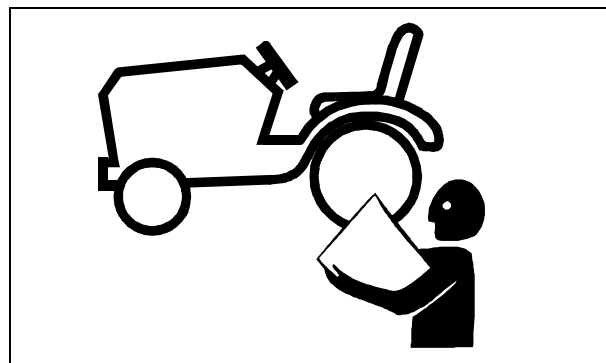
### Operator Training Required

- 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.
- 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.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- Operator experience is required to learn the moving, stopping, turning and other operating characteristics of the machine.

### Operating Safely



- 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.
- 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.
- Check brake action before you operate. Adjust or service brakes as necessary.
- Stop machine if anyone enters the area.
- If you hit an object, stop and inspect the machine. Make repairs before you operate. Keep machine and attachments properly maintained and in good working order.

# SAFETY

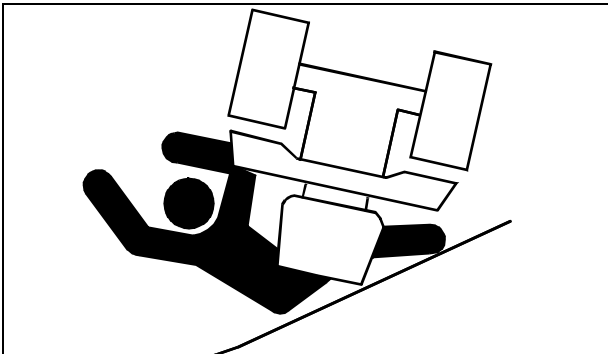
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- Do not leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Slow down and be careful of traffic when operating near or crossing roadways. Use care when approaching blind corners, shrubs, trees, 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.

## Parking Safely

1. Stop machine on a level surface, not on a slope.
2. 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.

## 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 attachment manual.

- Drive machine very slowly and avoid quick stops when attachment is removed.
- Drive up and down a hill - not across. If necessary, turn slowly and in the downhill direction. Do not shift to neutral and coast downhill.
- 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.

## 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.

## 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.

# SAFETY

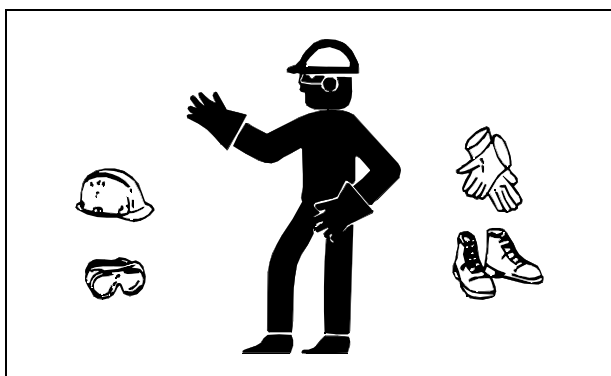
## Stay Clear of Rotating Drivelines



Entanglement in rotating driveline can cause serious injury or death.

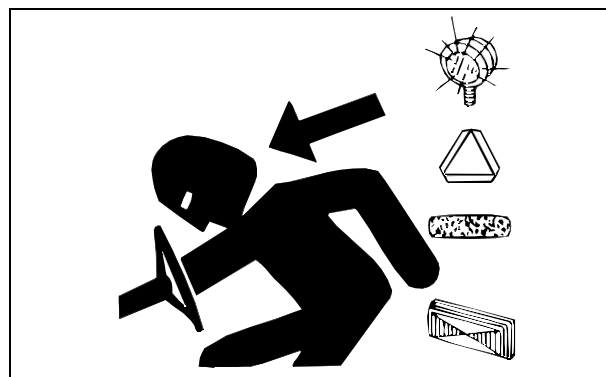
- Wear close fitting clothing.
- Stop the engine and be sure PTO driveline is stopped before getting near it.

## 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 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. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Stop machine on a level surface and lower attachments to the ground before servicing machine. Disengage all

# SAFETY

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power and stop the engine. Lock park brake and remove the key. Let machine cool.

- Disconnect battery or remove spark plug wire before making any repairs.
- Before servicing machine, carefully release pressure from components with stored energy such as hydraulic components.
- Keep all nuts and bolts tightened.
- Securely support any machine elements that must be raised for service work. Lock service latches before working on machine with raised attachments.
- 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.
- 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.

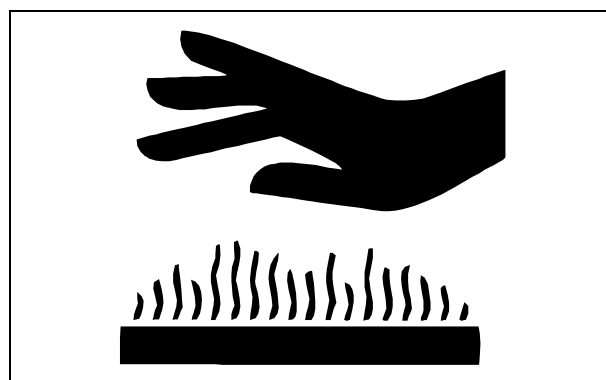
## Avoid High Pressure Fluids



- 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.

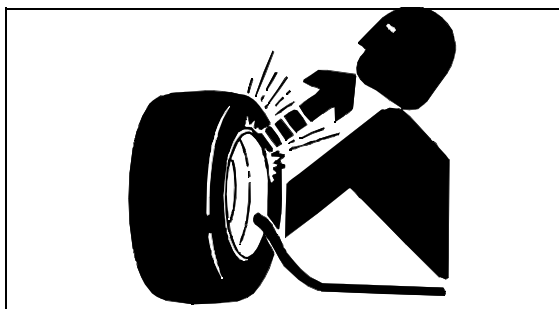
## Prevent Fires



- Never remove fuel cap, or add fuel with engine running 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.
- Close fuel shut-off valve when storing or transporting, if machine is equipped.

# SAFETY

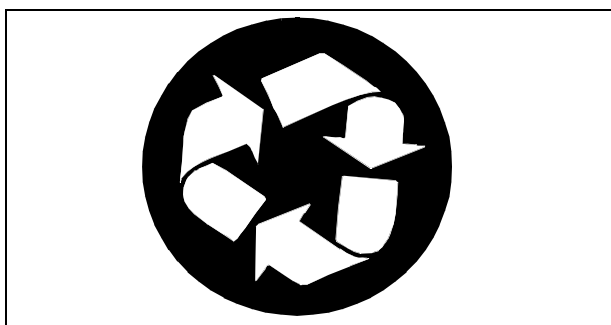
## Tire Safety



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

## 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.

## Handling Fuel Safely

Fuel and fuel vapors are highly flammable and explosive:



- Do not refuel machine while you smoke, when machine is near an open flame or sparks, or when engine is running. Stop engine and allow to cool before filling.
- Never remove the fuel cap or add fuel with the engine running.
- Never fill fuel tank or drain fuel from a machine in an enclosed area. Fill fuel tank outdoors.
- Prevent fires. Clean up spilled fuel immediately.
- Do not store machine with fuel in tank in a building where fumes may reach an open flame or spark.
- Prevent fire and explosion caused by static electric discharge. Use only non-metal, portable fuel containers approved by the Underwriter's Laboratory (U.L.) or the American Society for Testing & Materials (ASTM). If using a funnel, make sure it is plastic and has no screen or filter.



- Static electric discharge can ignite gasoline vapors in an ungrounded fuel container. Remove the fuel container from the bed of a vehicle or the trunk of a car and place on the ground away from the vehicle before filling. Keep nozzle in contact with container opening while filling.
- When practical, remove equipment from trailers or truck beds and refuel them on the ground. If this is not possible, use a portable, plastic fuel container to refuel equipment on a truck bed or trailer.
- For gasoline engines, do not use gas with methanol. Methanol is harmful to your health and to the environment.

# OPERATING

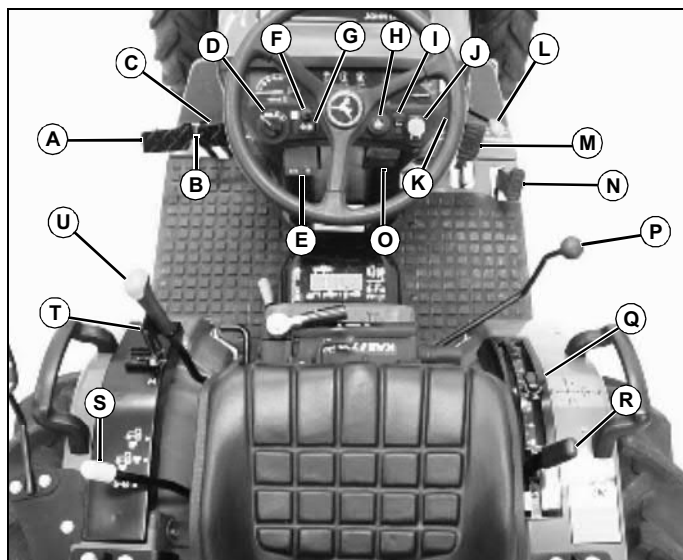
## Daily Operating Checklist

- 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.

## 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 (Hydrostatic Models)

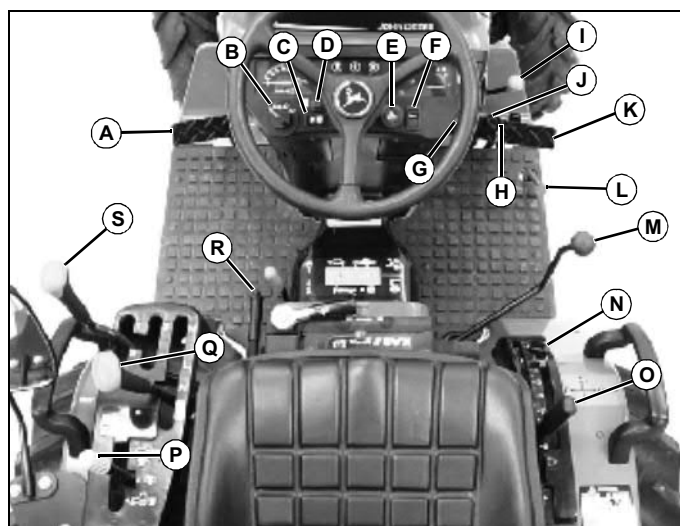


MX13673a

- A - Left Turn Brake Pedal
- B - Transport/Park Brake Pedal Lock Lever
- C - Right Turn Brake Pedal
- D - Operating Light Control Switch
- E - Park Brake Lock
- F - Position/Taillight Switch

- G - Turn Signal Switch
- H - Hazard/Warning Light Switch
- I - Horn Switch
- J - Power Take Off (PTO) Switch
- K - Ignition Key Switch
- L - Engine Speed Hand Throttle
- M - Forward Travel Pedal
- N - Reverse Travel Pedal
- O - Cruise Control Lever
- P - Selective Control Valve (SCV) Lever
- Q - Rockshaft Adjustable Depth Stop Knob
- R - Rockshaft Control Lever
- S - Power Take Off (PTO) Control Lever
- T - Neutral Lockout Lever
- U - Transmission Range Shift Lever

## Operator Station (Gear Models)



MX13674

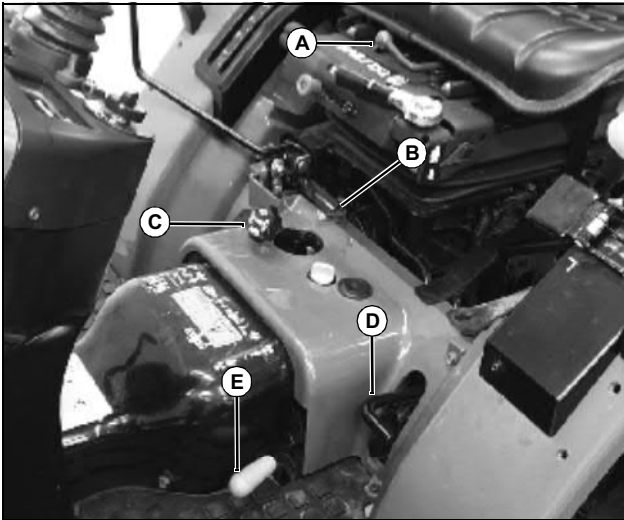
- A - Clutch Pedal
- B - Operating Light Control Switch
- C - Turn Signal Switch
- D - Position/Taillight Switch
- E - Hazard/Warning Light Switch
- F - Horn Switch
- G - Ignition Key Switch
- H - Transport/Park Brake Pedal Lock Lever
- I - Engine Speed Hand Throttle
- J - Left Turn Brake Pedal
- K - Right Turn Brake Pedal
- L - Engine Speed Foot Throttle
- M - Selective Control Valve (SCV) Lever
- N - Rockshaft Adjustable Depth Stop Knob

# OPERATING

- O - Rockshaft Control Lever
- P - Power Take Off (PTO) Control Lever
- Q - Transmission Range Shift Lever
- R - Park Brake Lever
- S - Transmission Gear Shift Lever

## Floor Panel Controls

**NOTE:** On gear model machines the differential lock pedal is located on the right side of the floor panel.

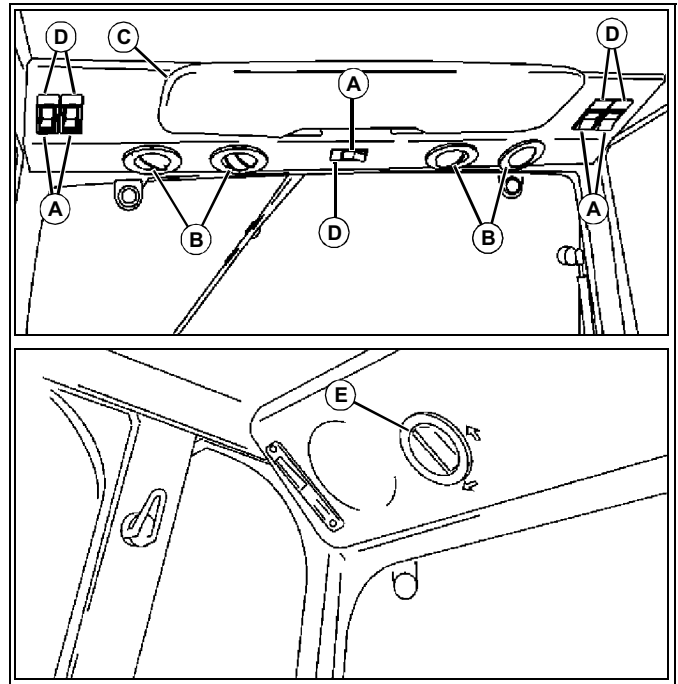


MX12103

Picture Note: HST model shown.

- A - Operator Seat Adjustment Lever
- B - Selective Control Valve (SCV) Lock
- C - Rockshaft Rate-of Drop Control Knob
- D - Differential Lock Pedal
- E - Mechanical Front Wheel Drive (MFWD) Control Lever

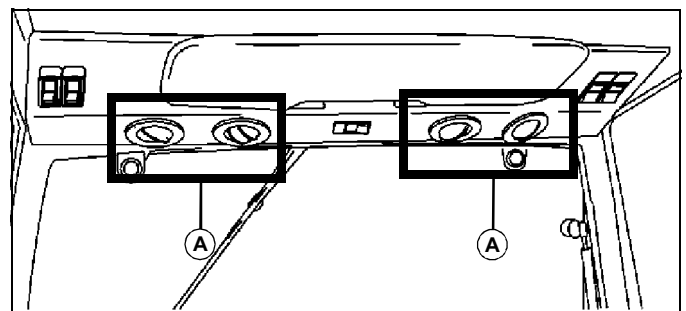
## Cab Controls



MX5179b, M13679a

- A - Switch Controls
- B - Air Louvers
- C - Sun Visor
- D - Fuse Sockets
- E - Temperature Control Knob

## Air Louvers

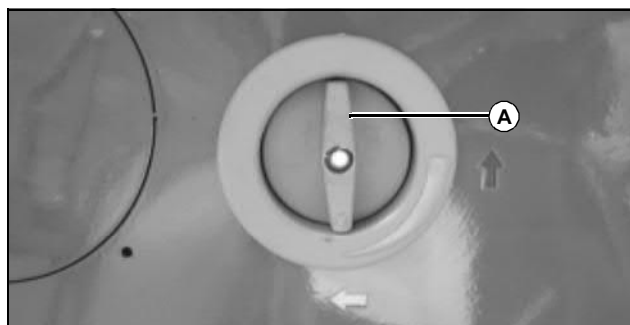


MX5179b

Four adjustable air louvers (A) are install in the cab headliner. The air louvers can be completely opened or closed and can be rotated 360 degrees to direct air flow. Adjust each air louver to a desirable operating position.

# OPERATING

## Temperature Control Knob

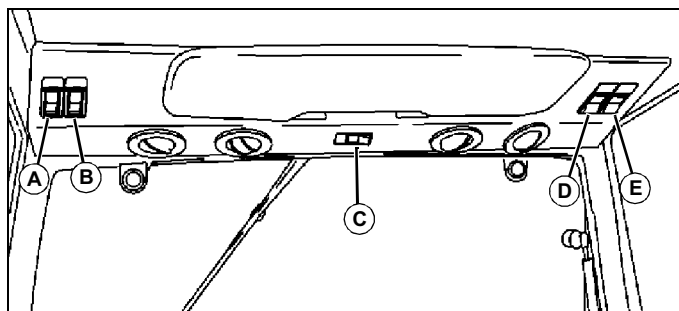


M13685

Temperature control knob (A) controls the operation of the heater temperature control. Use the temperature control knob and the fan switch to regulate the temperature inside the cab.

- Turning the temperature control knob completely counterclockwise will provide the greatest amount of heat.
- Turning the temperature control knob completely clockwise will provide no heat.
- Adjust the temperature control knob to a desirable operating position.

## Switch Controls



MX5179b

- A - Front and Rear Work Light Switch**
- B - Wiper/Washer Switch**
- C - Beacon Light Switch**
- D - Fan Switch**
- E - Rear Work Light Switch**

## Front and Rear Work Light Switch

- Depress top of switch (A) to turn both the front and rear work lights off.
- Depress bottom of switch (A) to turn both the front and rear work lights on.

## Wiper/Washer Switch

- Depress top of switch (B) to turn wiper off.
- Move switch (B) to the centered position to turn wiper on.

- Depress bottom of switch (B) to activate washer pump.

## Beacon Light Switch

- Depress left side of switch (C) to turn light off.
- Depress right side of switch to turn light on.

## Fan Speed Switch

- Depress top of switch (D) to turn fan off.
- Move switch (D) to the centered position for medium fan speed operation.
- Depress bottom of switch (D) for high speed fan operation.

## Rear Work Light Switch

- Depress top of switch (E) to turn the rear work lights off.
- Depress bottom of switch (E) to turn the rear work lights on.

## Adjusting Cab Mirrors

**IMPORTANT: Avoid damage! Cab mirrors must be adjusted to avoid contact with doors when opened.**

**NOTE: Mirrors have a swing-away feature that allows mirror arms to pivot if contact is made with a protruding object.**



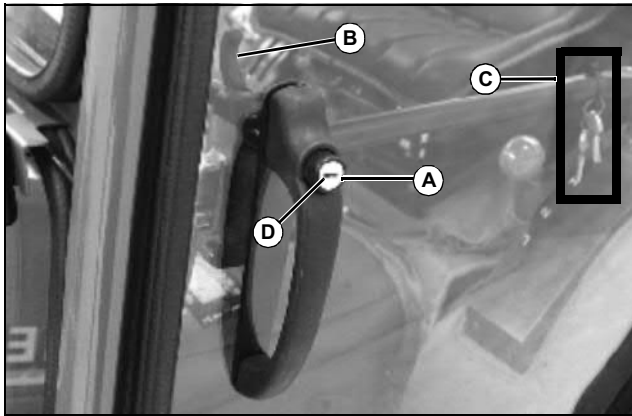
MX9151

Pivot each mirror (A) to a desirable operating position. The line of sight to the rear and sides of the machine should be clearly visible from the operator's seat.

# OPERATING

## Operating Cab Door Handles

### Opening Cab Doors



1. Depress door handle button (A) to open cab door from outside the machine.
2. Pull lever (B) down to open cab door from inside the machine.

### Locking Cab Doors

**NOTE: Each cab door can be locked from outside the machine. Use key set (C) provided to prevent unauthorized entry.**

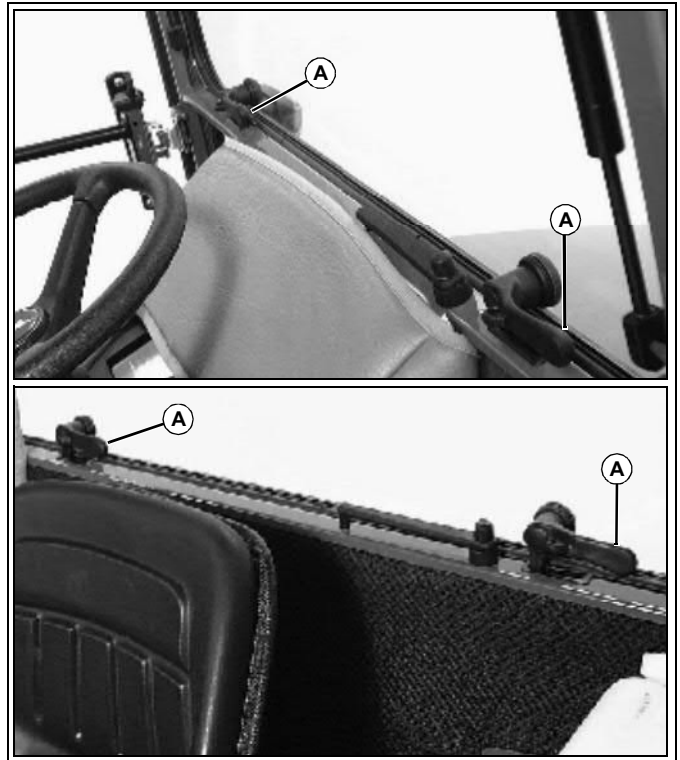
1. Insert key into door locking mechanism (D).
2. Rotate key 1/4 turn counterclockwise to lock door.
3. Remove key.

## Operating Cab Windows

**IMPORTANT: Avoid damage! Front window must be in the closed/locked position before opening the engine hood.**

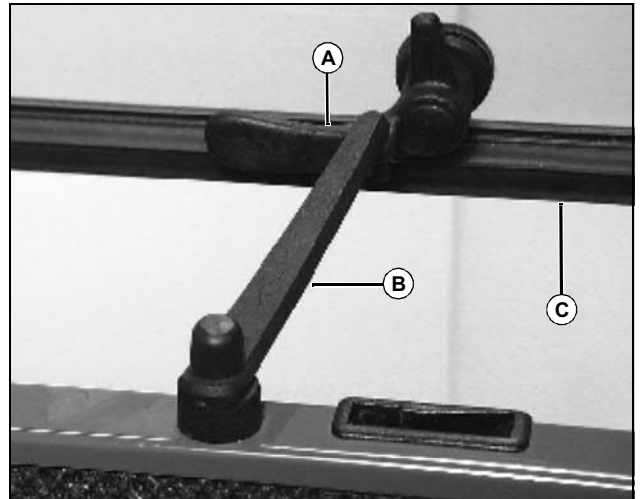
The cab front and rear windows can be operated in three position:

- Closed/locked position.
- Open/vent position.
- Fully open position



**Picture Note: Front window shown in top photo. Rear window shown in bottom photo.**

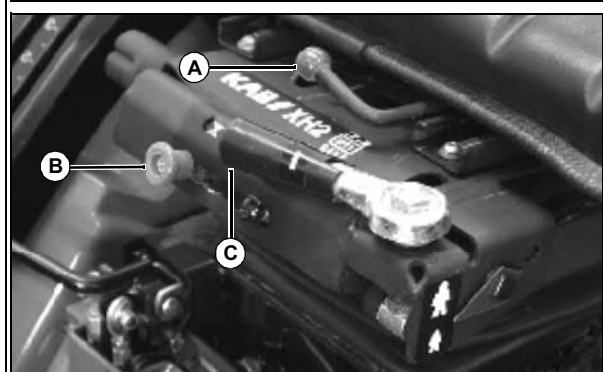
1. Raise handles (A) to release window from the closed/locked position.
2. Carefully rotate base of window open.



3. Install arm (B) into handle (A) to lock window in the open/vent position.
4. Raise window (C) to a fully open position if desired.

# OPERATING

## Adjusting Operator Seat



MX13669, MX13670

**NOTE:** Before starting engine to operate tractor, adjust operator seat position, height and suspension.

### Adjusting Seat Position

1. Sit on operator seat.
2. Rotate 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

1. Move knob (B) right to lower operator seat.
2. Move knob (B) left to raise operator seat.

### Adjusting Seat Suspension

Adjust seat suspension to accommodate the weight of the operator. Refer to operator size label and indicator arrow on the left side of seat suspension frame when making an adjustment.

#### For a firmer ride:

1. Rotate handle (C) to the "+" position.
2. Move handle with ratcheting motion to increase seat

spring tension.

#### For a softer ride:

1. Rotate handle (C) to the "-" position.
2. Move handle with ratcheting motion to decrease seat spring tension.

## Safety Interlock System Checkout Procedure (Gear Models)



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

**Move the vehicle 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.

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

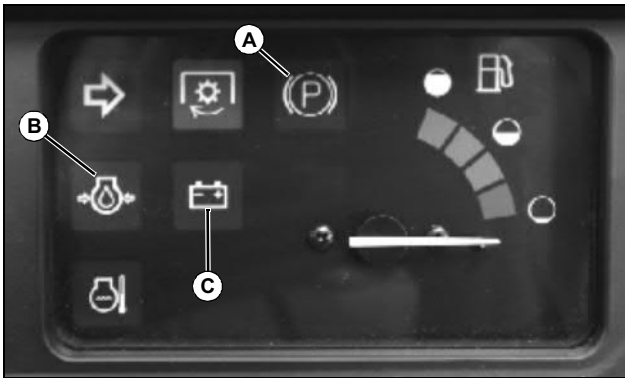
If there is a malfunction during one of these procedures, Do not operate machine. **See your John Deere dealer for service.**

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

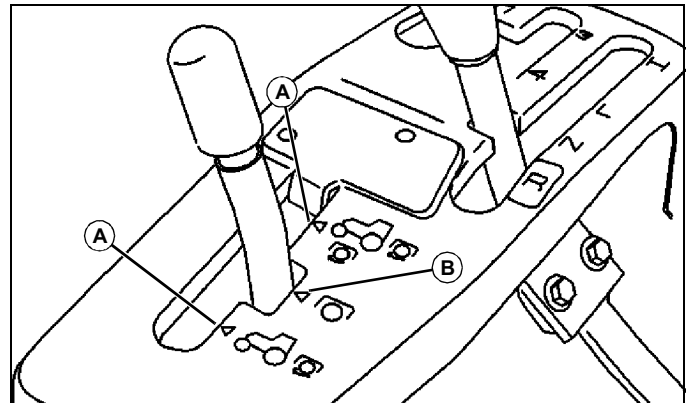
## Testing Operation of Instrument Panel Indicator Lights

1. Sit on operator's seat.
2. Lock park brake.
3. Move 2-speed range and direction lever into the N (neutral) position.
4. Move the PTO control lever to the disengaged/off position.
5. Turn key switch to the ON position.

# OPERATING



MX12100



MX9179a

- Look: The park brake indicator light (A) must illuminate and flash. The engine oil pressure indicator light (B) and alternator/battery charging light (C) must illuminate.

- Listen: The engine fuel shut-off solenoid will engage with a click.

6. If any of the indicators do not illuminate, see the service electrical section. If any indicators fail to light after light bulb replacement, see your John Deere dealer.

## Testing the Neutral Start Switch

1. Sit on operator's seat.
2. Depress clutch pedal completely.
3. Move the transmission range shift lever to the H (high), L (low) or R (reverse) position.
4. Turn key switch to START position.
  - Engine must not crank.
5. Turn key to OFF position and move transmission to the N (neutral) position.

## Testing the Power-Take-Off (PTO) Switch

1. Sit on operator's seat.
2. Depress clutch pedal completely.

3. Move the PTO control lever to any engaged/on position (A). Slowly release the clutch pedal.
4. Turn key to the START position.
  - Engine must not crank.
5. Depress clutch pedal completely and move the PTO control lever to the disengaged/off position (B).
6. Turn key to the OFF position.

## Testing the Seat Switch/PTO Interface

1. Sit on operator's seat.
2. Move 2-speed range and direction lever into the N (neutral) position.
3. Make sure the park brake is locked.
4. Start tractor engine.
5. Depress clutch pedal completely and move the PTO control lever to any engaged/on position.
6. Raise up from operator's seat. Do not dismount tractor.
7. Engine shut-off solenoid must de-energize in 1/2 second, causing the engine to stop.

## Testing the Seat Switch

1. Sit on operator's seat.
2. Move the PTO control lever to the disengaged/off position.
3. Move the transmission gear shift lever to the neutral position.
4. Make sure the park brake is locked.
5. Start tractor engine. Set engine speed at 2650 rpm.
6. Depress clutch pedal completely.
7. Move the transmission range shift lever to the H (high), L



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# OPERATING

(low) or R (reverse) position.

8. Raise up slightly off from operator's seat while depressing clutch pedal all the way down.
9. Engine should stop.

## Testing the Transmission Shift Lever Switch

1. Sit on operator's seat.
2. Make sure the park brake is locked.
3. Depress clutch completely.
4. Move the transmission range shift lever to the H (high), L (low) or R (reverse) position.
5. Turn key to the START position.
  - Engine must not crank.

## Safety Interlock System Checkout Procedure (Hydrostatic Models)



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

**Move the vehicle 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.**

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

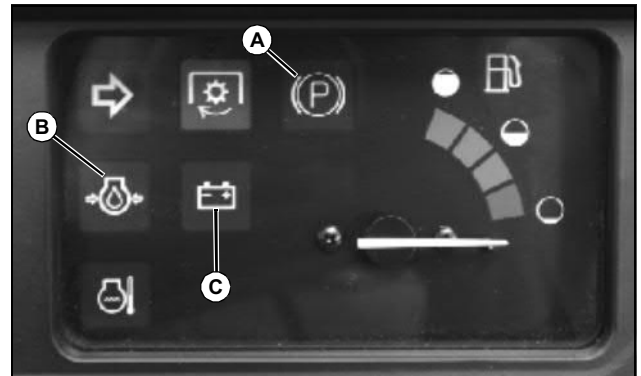
If there is a malfunction during one of these procedures, Do not operate machine. **See your John Deere dealer for service.**

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

## Testing Operation of Instrument Panel Indicator Lights

1. Sit on operator's seat.
2. Lock park brake.

3. Return hydrostatic travel pedals to neutral position.
4. Push PTO knob down to the disengaged/off position.
5. Turn key switch to the ON position.



MX12100

- **Look:** The park brake indicator light (A) must illuminate and flash. The engine oil pressure indicator light (B) and alternator/battery charging light (C) must illuminate.
  - **Listen:** The engine fuel shut-off solenoid will engage with a click.
6. If any of the indicators do not illuminate, see the service electrical section. If any indicators fail to light after light bulb replacement, see your John Deere dealer.

## Testing the Neutral Start Switch

1. Sit on operator's seat.
2. Push PTO knob down to the disengaged/off position.
3. Move the transmission range shift lever to the H (high) or L (low) position.
4. Depress completely forward or reverse hydrostatic drive pedal.
5. Turn key switch to START position.
  - Engine must not crank.
6. Turn key switch to the OFF position.

## Testing the Power-Take-Off (PTO) Switch

1. Sit on operator's seat.
2. Pull PTO knob up to the engaged/on position.
3. Turn key to the START position.
  - Engine must not crank.
4. Push PTO knob down to the disengaged/off position.
5. Turn key switch to the OFF position.

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