

JOHN DEERE
WORLDWIDE CONSTRUCTION
AND FORESTRY DIVISION

Skid Steer
280

OMKV18651 B3

OPERATOR'S MANUAL



JOHN DEERE

⚠ WARNING: Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

California Proposition 65 Warning

North American Version
Litho in U.S.A.

INTRODUCTION

Thank You for Purchasing a John Deere Product

We appreciate having you as a customer and wish you many years of safe and satisfied use of your machine.

Using Your Operator's Manual

This manual is an important part of your machine and should remain with the machine at all times.

Reading your operator's manual will help you and others avoid personal injury or damage to the machine.

Information given in this manual will provide the operator with the safest and most effective use of the machine. Knowing how to operate this machine safely and correctly will allow you to train others who may operate this machine.

This manual and safety signs on your machine may also be available in other languages (see your Authorized John Deere Skid Steer 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 and LEFT 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.

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: Information is given throughout the manual that may help the operator with the operation or service of the machine.

PRODUCT IDENTIFICATION

Record Identification Numbers

Skid Steers

280 PIN (380001 -)

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

You will need to locate the identification numbers for the product. Record the information in the spaces provided below.

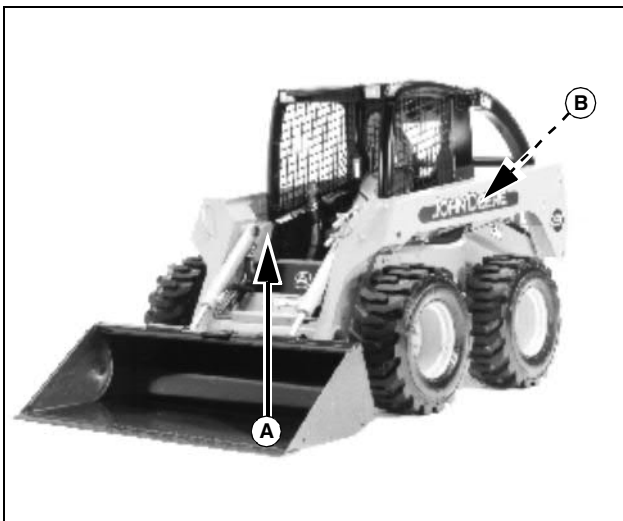
DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT IDENTIFICATION NUMBER (A):

ENGINE SERIAL NUMBER (B):



KV1172

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

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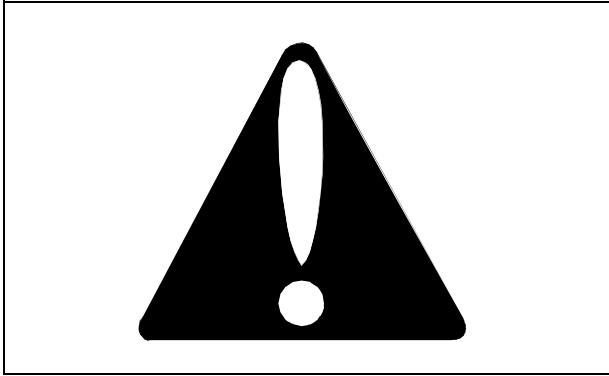
All information, illustrations and specifications in this manual are based on the latest information at the time of publication. The right is reserved to make changes at any time without notice.

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Previous Editions
COPYRIGHT©

OMKV18651 B3 - English

SAFETY

Understanding The Machine Safety Labels



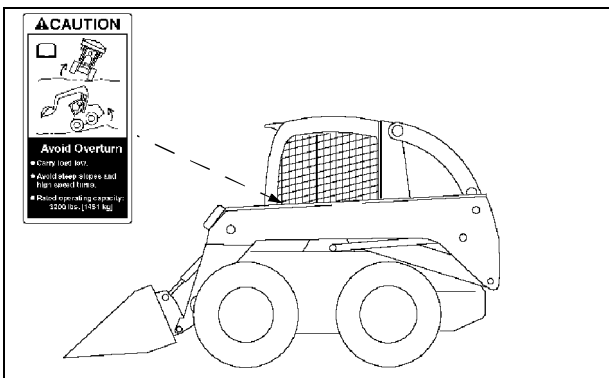
MIF

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol.

CAUTION - Avoid Overturn

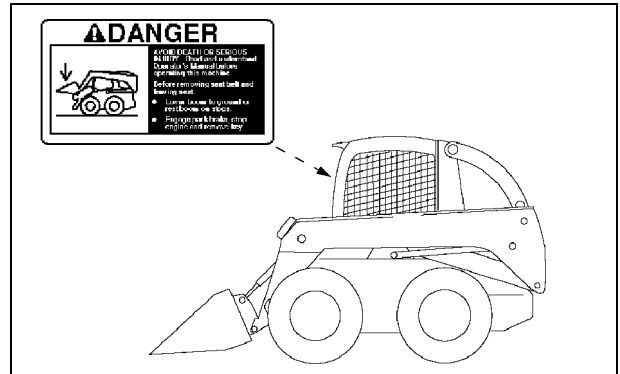


KV14256 T165349

- Carry Load Low
- Avoid Steep Slopes and High Speed Turns
- Rated Operating Capacity

DANGER - Avoid Death or Serious Injury

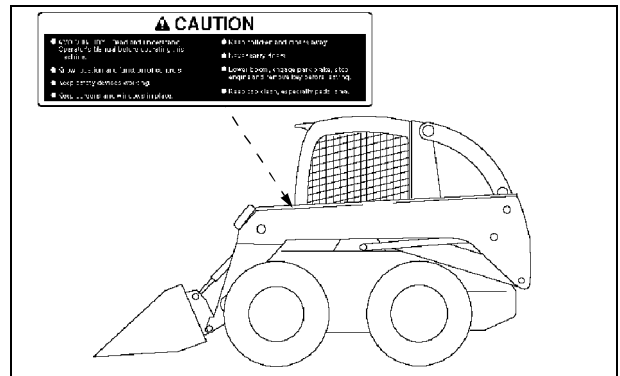
Before Removing Seat Belt and Leaving Seat:



KV14256 T165350

- Lower Boom To Ground or Rest Boom on Stops
- Engage Park Brake, Stop Engine and Remove Key

CAUTION - Avoid Injury

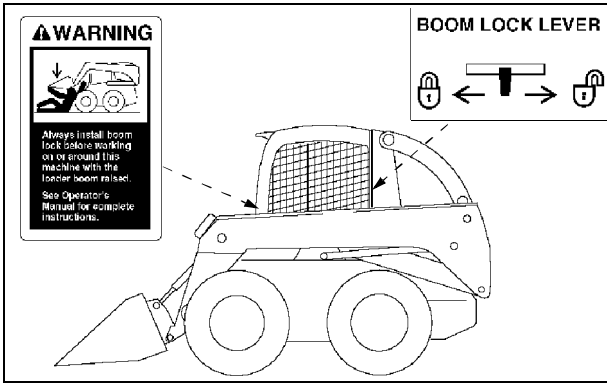


KV14256 T165351

- Read and Understand Operator's Manual Before Operating this Machine
- Know Location and Function of Controls
- Keep Safety Devices Working
- Keep Screens and Windows in Place
- Keep Children and Others Away
- Never Carry Riders
- Lower Boom, Engage Park Brake, Stop Engine and Remove Key Before Leaving
- Keep Cab Clean, Especially Pedal Area

SAFETY

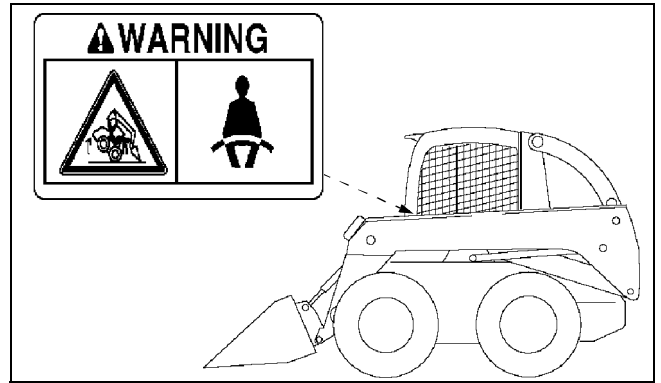
WARNING - Avoid Injury



Always install boom lock before working on or around this machine with the loader boom raised.

See Operator's Manual for complete instructions.

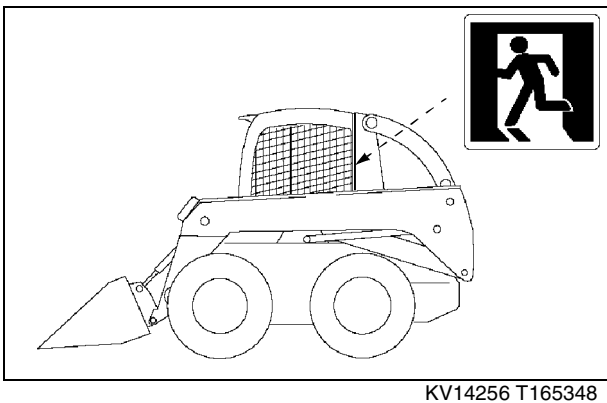
WARNING - Avoid Injury



Always wear seat belt when operating skid steer.

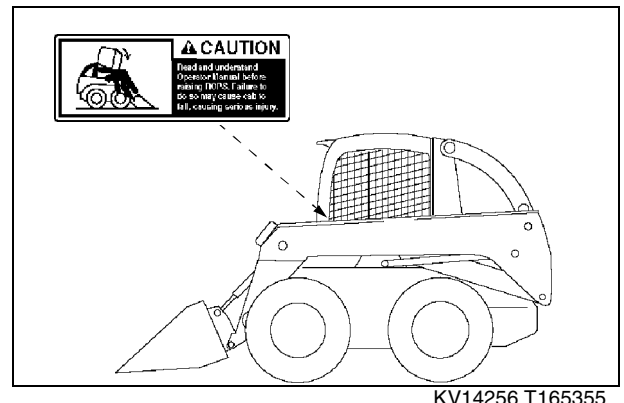
Failure to wear seat belt could result in an injury from an accident such as an overturn.

WARNING - Emergency Cab Exit



Remove the rear window to provide an exit in an emergency when the front exit is blocked.

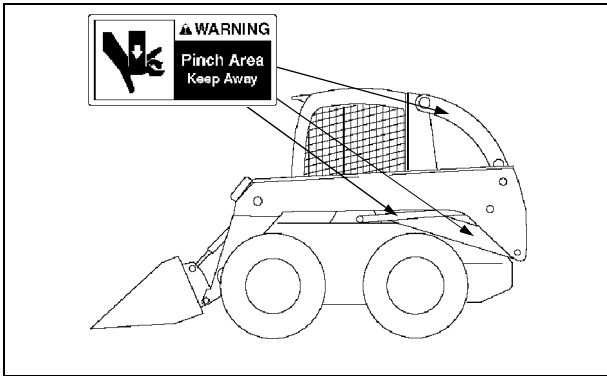
CAUTION - Avoid Injury



Read and Understand Operator Manual Before Raising ROPS. Failure to do so May Cause Cab to Fall Causing Serious Injury.

SAFETY

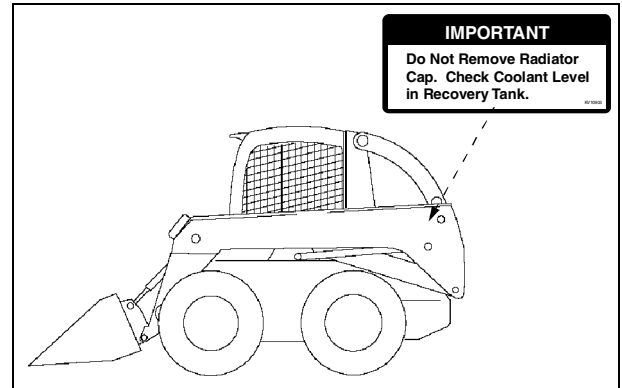
WARNING - Pinch Area



KV14256 T165344

Keep Away

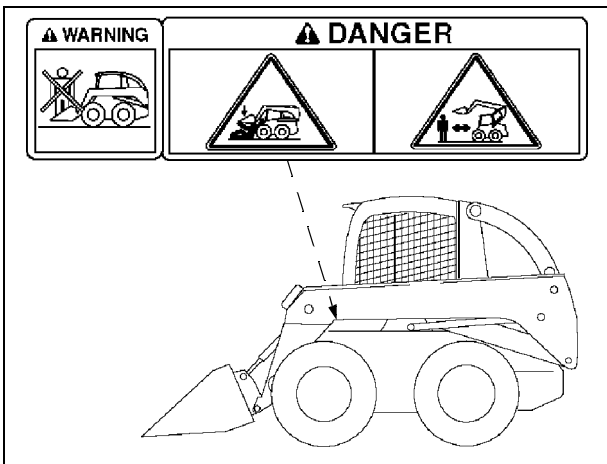
IMPORTANT



KV14256 KV10903

Do Not Remove Radiator Cap. Check Coolant Level in Recovery Tank.

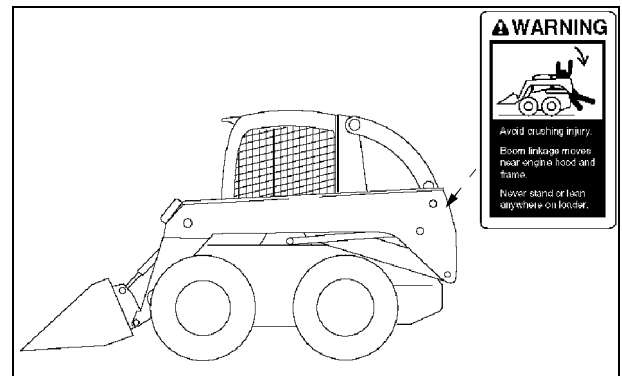
WARNING - DANGER



KV14256 T165356

- DO NOT allow riders in the bucket.
- Never stand or lean anywhere on skid steer or linkage will crush you.

WARNING

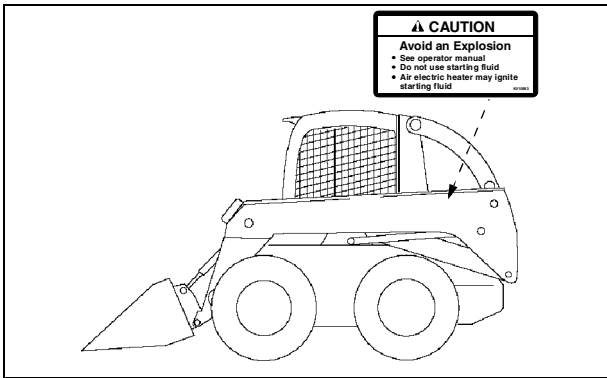


KV14256 T165347

- Boom Moves Near Engine Hood and Frame.
- Never Stand Or Lean Anywhere On Skid Steer Or Linkage Will Crush You.

SAFETY

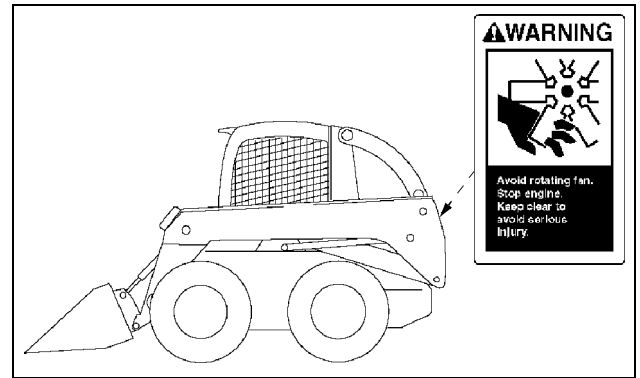
CAUTION - Avoid an Explosion



KV14256 KV10893

- See operator manual
- Do not use starting fluid
- Air electric heater may ignite starting fluid

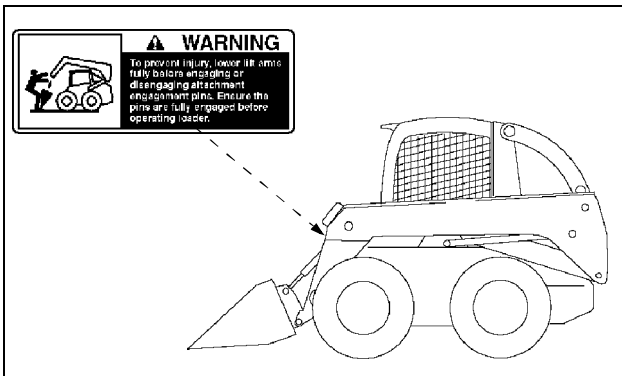
WARNING - Avoid Rotating Fan



KV12456 T165346

Stop engine. Keep clear to avoid serious injury.

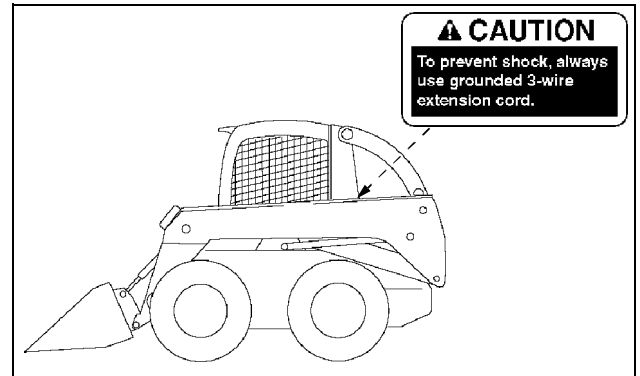
WARNING



KV12456 T165357

To prevent injury, lower lift arms fully before engaging or disengaging attachment engagement pins. Ensure the pins are fully engaged before operating loader.

CAUTION - To Prevent Shock

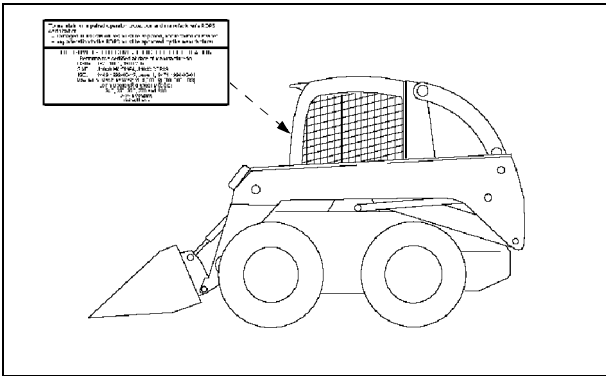


KV12456 T165345

Always use grounded 3-wire extension cord.

SAFETY

ROPS Certification Label



KV14256 T165362

To maintain unimpaired operator protection and manufacturer's ROPS certification:

- Damaged ROPS structures must be replaced, not repaired or revised.
- Any alteration to the ROPS must be approved by the manufacturer.

ROLL-OVER PROTECTIVE STRUCTURE CERTIFICATION

Performance certified at date of manufacture to:

OSHA: 1926.1001;1910.266

SAE: J1040MAY1994, J1043SEP99

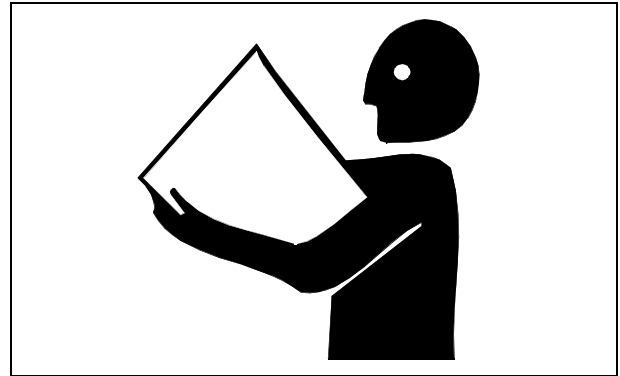
ISO: 34491992-05-15, Level 1;3474 1994-02-01

MAXIMUM MACHINE WEIGHT 4,500 Kg (10,000 LBS)

John Deere Skid Steer Models: 240, 250, 260, 270 and 280

Deere & Company; Moline Illinois

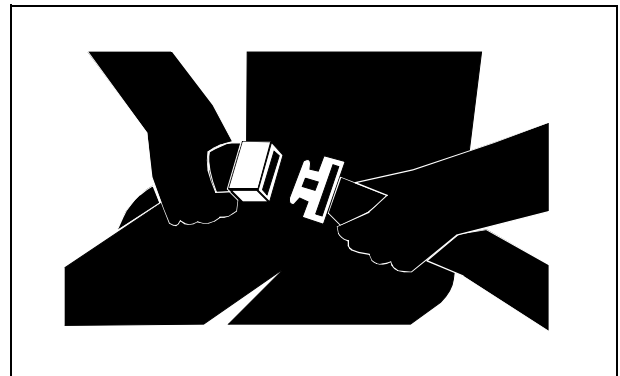
Operator Training Required



MIF

- Study operation section of this manual before operating the machine. Know location and function of all controls.
- Operate machine in an open, unobstructed area under the direction of an experienced operator.
- Operator experience is required to learn the moving, stopping, turning, and other operating characteristics of the machine.
- Safety Video, DSVHC018312, is available through your John Deere Dealer.

Use Seat Belt Properly

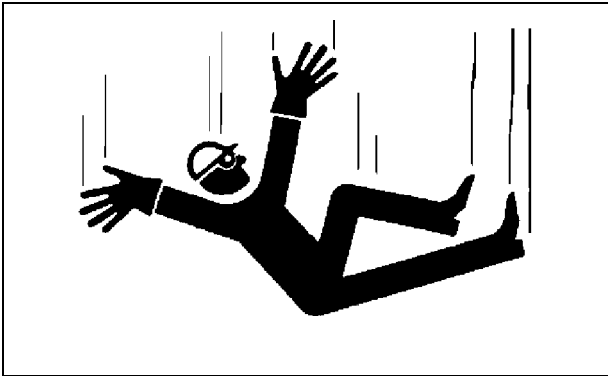


MIF

- Use a seat belt when you operate with a roll-over protective structure (ROPS) or cab to minimize chance of injury from an accident such as an overturn.
- Do not operate skid steer from anywhere but the operator's seat with seat belt fastened.

SAFETY

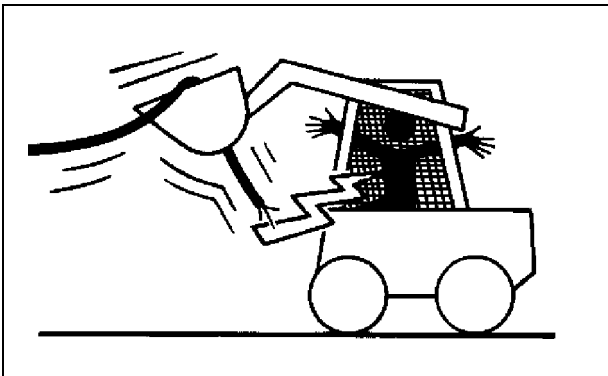
Use Handholds and Steps



M61935

- Maintain a three-point contact with steps and handholds. Face machine when getting in or out of machine. Do not use controls as handholds.
- Do not jump in or out of machine. Do not exit a moving machine.
- Be careful of slippery platforms, steps, and handholds. Keep platforms, steps, and handholds clean and free of debris.

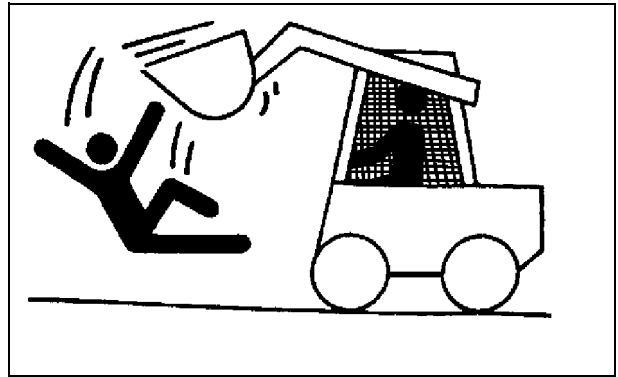
Operate Safely



M62140

- Do not work under overhangs, electric wires, or where there is danger of a slide.
- Never use starting fluid to start engine. This machine has an electric air heater which can ignite starting fluid.
- Keep people and pets out of the worksite. Stop machine if anyone enters the worksite.
- If you hit an object, stop the machine and inspect machine for damage. Make repairs before you operate again. Keep machine and attachments properly maintained and in good working order. Keep all shields and guards in place. Keep screens and windows in place.
- Do not leave machine unattended while it is running.

- Operate only during daylight or with adequate artificial light.
- Be careful of traffic when operating near or crossing roadways.
- Do not reach out of operator's station. Boom is lowered and raised during operation and can cause injury.

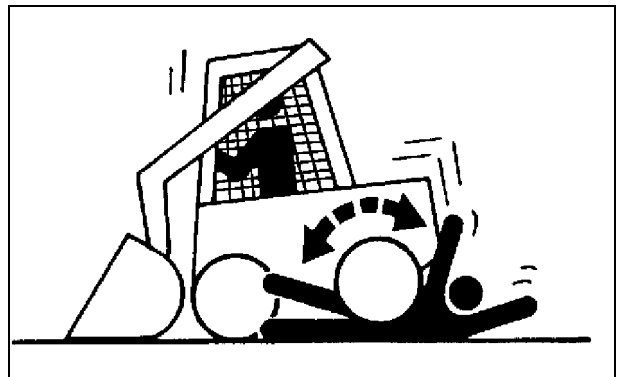


M61937

- Do not use a bucket or attachment as a work platform or for carrying people.
- Do not move loads over the heads of other people.
- Keep operator's station clean and clear of debris, especially area around pedals.

Protect Children and Prevent Accidents

Protect Children:



M61936

- Never assume that children will remain where you last saw them. Children are attracted to machine activity; stay alert to the presence of children.
- Turn machine off if a child enters the worksite.
- Use extra care when you come to blind corners, shrubs, trees, or other objects that may block your vision.
- Do not let children or an untrained person operate the machine.

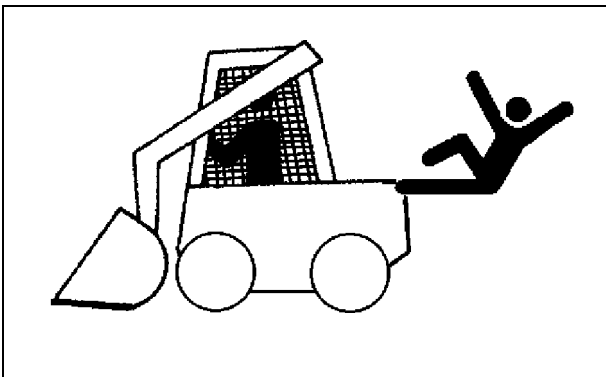
SAFETY

- Do not carry or let children ride on machine or any attachment.

Help Prevent Serious Or Fatal Accidents:

- Be alert at all times; drive forward carefully. People, especially children, can move quickly onto the worksite unnoticed.
- An operator must continuously be aware of all co-workers who share the worksite.
- Backup carefully. An operator must always look to each side and to the rear for co-workers before backing up.

Keep Riders Off



M61936A

- Allow only 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.

Avoid Tipping

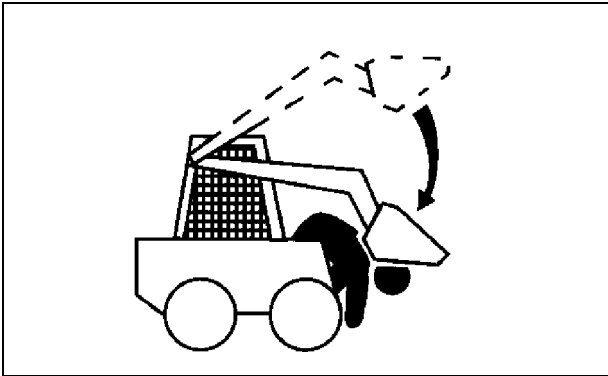


m57059A

- Do not drive where machine could slip or tip.
- Stay alert for holes and other hidden hazards in the terrain.
- Keep away from steep hillsides and drop-offs.
- Slow down before you make a sharp turn or operate on a slope.
- Limit loads to those you can safely control.
- Use counterweights when required per your attachment manual. Carry loads low.
- Drive up and down a hill - not across. Be careful when you change direction on a slope.
- Never drive up or back up a hill or incline with a raised boom.
- If the skid steer should start to tip forward and the boom is raised, immediately lower the boom to regain skid steer stability.

SAFETY

Park Safely

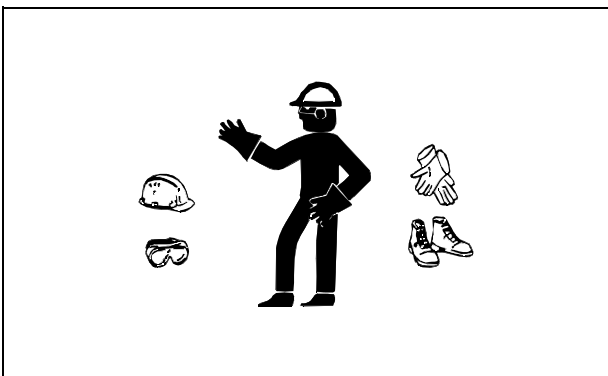


M57057A

Before removing seat belt and leaving seat:

1. Stop machine on a level surface, not on a slope.
2. Lower boom so attachments are on the ground. (If you must leave boom raised, be sure any attachment is removed and the boom locks are in the locked [Engaged] position, and boom is resting on locks.)
3. Engage park brake switch.
4. Stop engine.
5. Remove key.
6. Before you leave the operator's seat, wait for engine and all moving parts to stop.

Wear Appropriate Clothing



MIF

- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

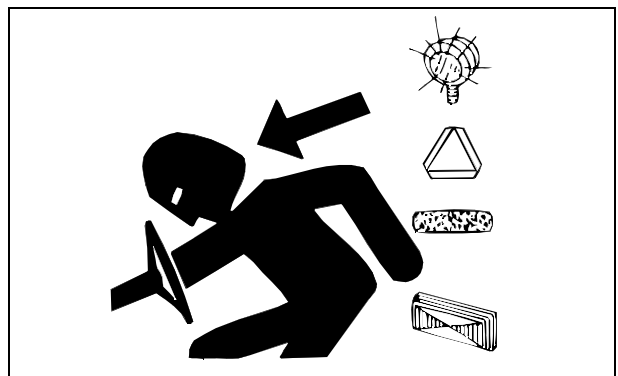
Check Lug Nuts



M71898WH

- A serious accident could occur causing serious injury if lug nuts are not tight.
- Check lug nut tightness often during the first 100 hours of operation. Tighten bolts to 237 N•m (175 lb-ft).

Transport Safely

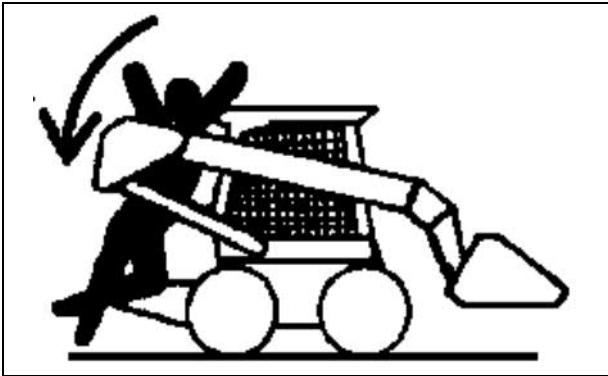


MIF

- Avoid personal injury or death resulting from a collision. 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 according to local regulations. Additional lights may need to be installed. Machine should also be equipped with a SMV (Slow Moving Vehicle) sign.
- A SMV (Slow Moving Vehicle) sign is available from your Authorized John Deere Skid Steer Dealer.
- A dual flasher kit (four way flasher kit) is available from your Authorized John Deere Skid Steer Dealer.

SAFETY

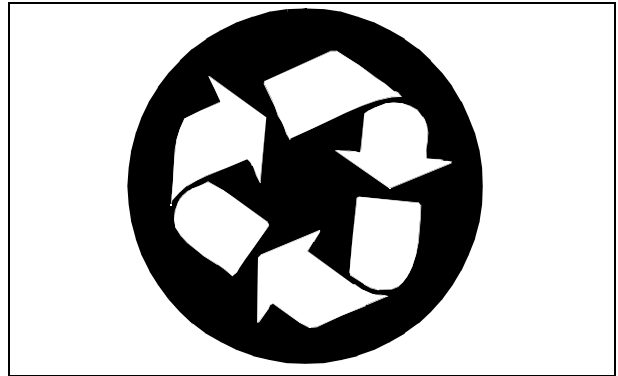
Practice Safe Maintenance



M71840A

- Do not work under a raised boom unless it is resting on boom locks. Lift arms move near engine hood and frame; never stand or lean on skid steer where linkage can crush you.
- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate or service machine while it is running. Keep safety devices in place and in working condition.
- Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before servicing machine, lower boom and attachment to the ground. Disengage all power. Engage park brake switch. Stop engine. With the seat belt fastened, turn the key switch to the run position (do not start the engine). Disengage the park brake switch. For hand/foot operated skid steers, move boom and bucket pedals back and forth to relieve hydraulic pressure. For hands only operated skid steers, move the boom and bucket control handles back and forth to relieve hydraulic pressure. Engage park brake switch. Remove the key. Let machine cool.
- Securely support any machine elements that must be raised for service work with safety jack stands or blocks.
- Never run engine unless park brake switch is engaged.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.
- Unauthorized modifications to the machine may impair its function and safety.

Handling Waste Product and Chemicals

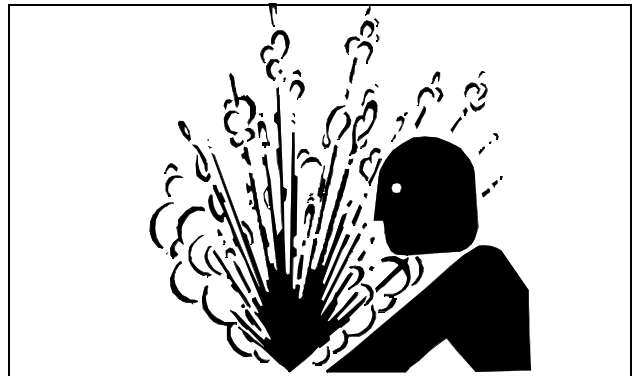


MIF

Waste products, such as, used oil, fuel, coolant, brake fluid, and batteries, can harm the environment and people:

- Do not use beverage containers for waste fluids - someone may drink from them.
- See your local Recycling Center or John Deere dealer to learn how to recycle or get rid of waste products.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. The seller of the chemical products used with your machine is responsible for providing the MSDS for that product.

Service Cooling System Safety



MIF

Explosive release of fluids from pressurized cooling systems can cause serious burns:

- Always shut off engine before checking cooling system.
- Remove cooling system filler cap only when the radiator is cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.

SAFETY

Avoid High Pressure Fluids



MIF

- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
- If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A. Information may be obtained in the United States and Canada only by calling 1-800-822-8262.

Tire Safety

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



MIF

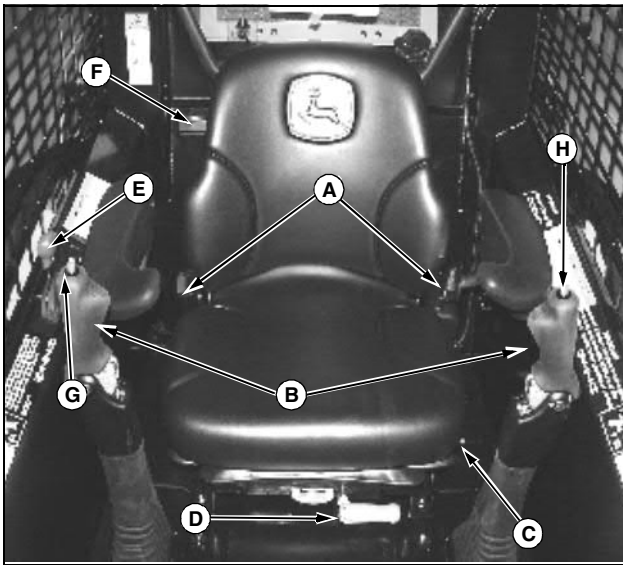
- Do not attempt to mount a tire without the proper equipment and experience to perform the job.
- Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting 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.

OPERATING

Daily Operating Checklist

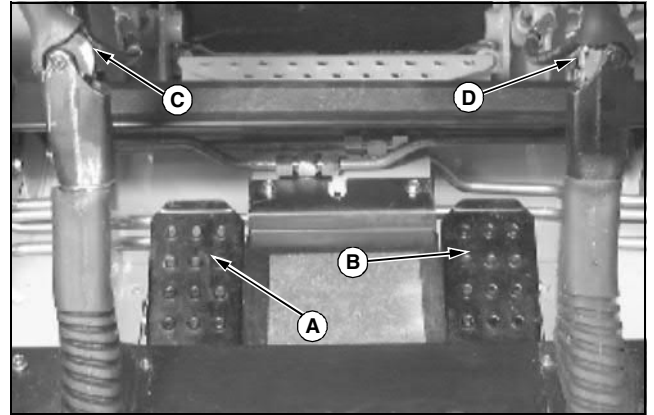
- Test safety systems.
- Check fuel level.
- Check engine oil level.
- Check hydraulic oil level and hoses.
- Check coolant level and hoses.
- Remove dirt and debris from radiator.

Operator Station



KV1158

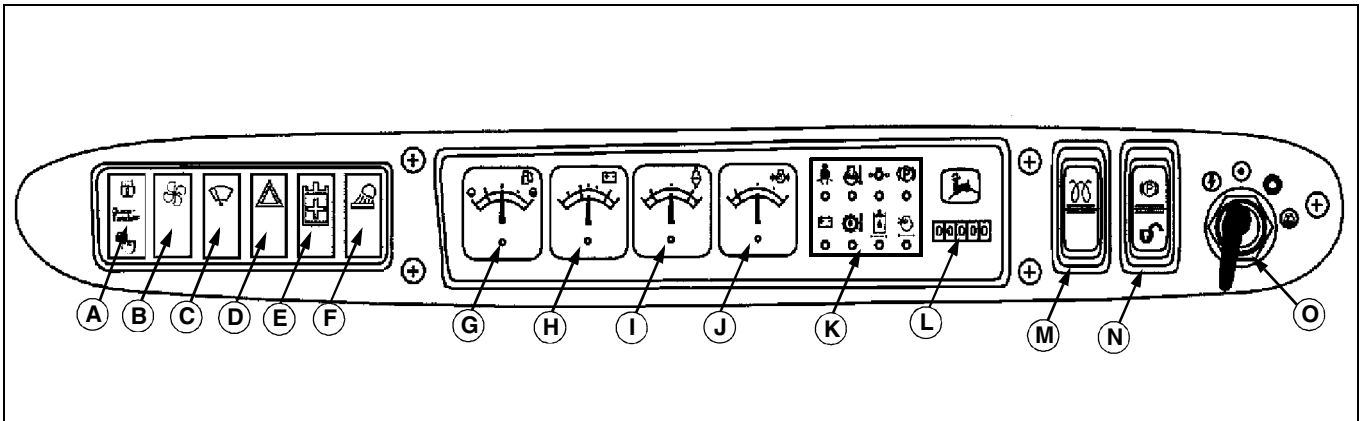
- A - Seat Belt**
- B - Drive Control Levers**
- C - Seat Adjustment Lever**
- D - Suspension Seat Adjustment (Optional)**
- E - Throttle Lever**
- F - Boom Lock Lever**
- G - Two Speed Button (Optional)**
- H - Horn (Optional)**



KV13962a

- A - Boom Control Pedal (Hand-Foot Skid Steer)**
- B - Bucket Control Pedal/Auxiliary Hydraulic Control (Hand-Foot Skid Steer)**
- C - Boom Control Handle (Hands-Only Skid Steer)**
- D - Bucket Control Handle/Auxiliary Hydraulic Control (Hand-Foot Skid Steer)**

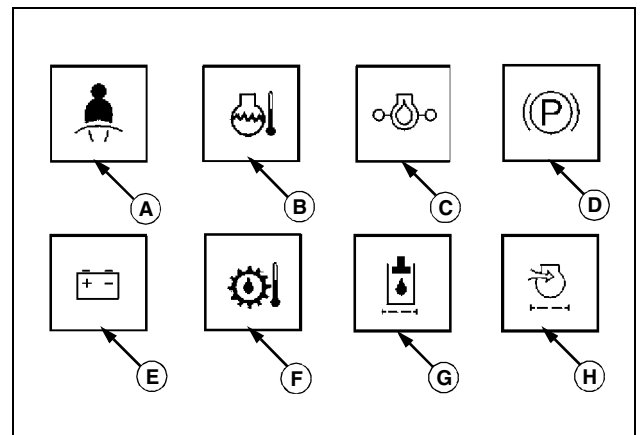
OPERATING



KV0572

Warning Lights (K)

- A - Hydraulic Quik-Tatch (Optional)
- B - Heater (Optional)*
- C - Windshield Wiper (Optional)
- D - Hazard Warning Lights (Optional)
- E - High-Flow (Optional)
- F - Work Lights
- G - Fuel Gauge
- H - Battery Gauge
- I - Engine Temperature Gauge
- J - Engine Oil Pressure Gauge
- K - Warning Lights
- L - Hour Meter
- M - Cold Start Switch
- N - Park Brake Switch
- O - Key Switch



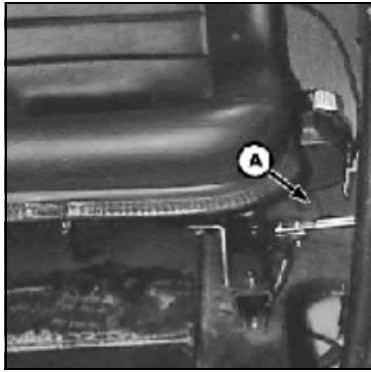
KV1173

- A - Seat Switch or Seat Belt Not Activated
- B - Engine Coolant Over-Temperature
- C - Low Engine Oil Pressure
- D - Park Brake Engaged
- E - Battery Not Charging
- F - Hydraulic Oil Over-Temperature
- G - Hydraulic Filter Restriction
- H - Air Filter Restriction

*The heater/blower switch in your machine may not be located in the instrument panel. Some machines have the heater/blower switch located in the headliner to the operator's left.

OPERATING

Adjusting Seat



102

1. Push lever (A) back.
2. Slide seat forward or backward to desired position.
3. Release lever.

Adjusting Armrests

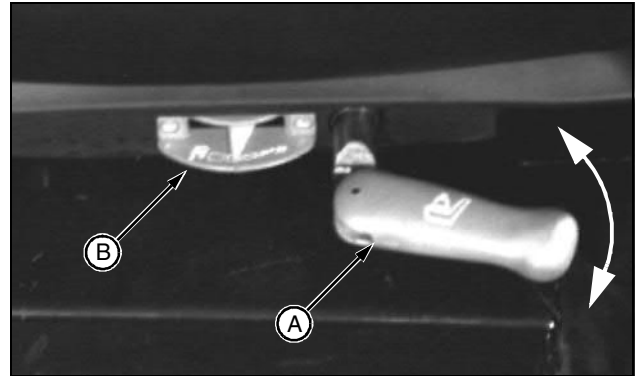


KV1042

The roller (A) is used to adjust the level of the armrest.

- Turn the roller toward the operator to lower the front of the armrest.
- Turn the roller away from the operator to raise the front of the armrest.

Adjusting Suspension Seat (Optional)



KV1009

1. Locate the handle (A) underneath the front of the suspension seat.
2. Pull the handle out to adjust for the appropriate operator body weight:
 - Turn the handle clockwise for a heavier operator as indicated on the dial (B).
 - Turn the handle counterclockwise for a lighter operator as indicated on the dial (B).
3. Push the handle underneath the seat to store.

Testing Safety Systems



CAUTION: Avoid injury! Engine exhaust fumes can cause sickness or death:

- **Catalytic mufflers reduce emissions. The effectiveness depends upon engine load and exhaust temperature levels that are not always present in skid steer operations. Catalytic mufflers will not provide fume-free exhaust for confined operations.**
- **If it is necessary to run an engine in an enclosed area, use an exhaust duct system to remove the fumes.**
- **Always work in a well ventilated area.**

NOTE: The park brake switch must be engaged before engine will crank.

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 Authorized John Deere Skid Steer Dealer for service.**

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



Suggest:

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OPERATING

Testing Park Brake Switch

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Sit in operator's seat, buckle seat belt, and disengage park brake switch.
3. Turn the key to the start position.

Result: Engine must not crank.

Testing Boom And Bucket Interlock System On A Hand-Foot Skid Steer



CAUTION: Avoid injury! Stay clear of boom and bucket area. If test fails, boom and bucket will move.

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Sit in operator's seat, buckle seat belt, and engage park brake switch.
3. Start the engine.
4. Run engine at maximum engine speed.
5. Place park brake switch in the middle (run) position.
6. Push down on the back of boom control pedal to slowly raise boom. Release pedal. Push down on the back of bucket control pedal to slowly curl bucket. Release pedal.
7. Unbuckle seat belt. Push down on front or rear of pedals.

Result: Pedals, boom, and bucket should lock as soon as the seat belt is released.

The operator must complete the following sequence, to release the pedals, boom, and bucket:

1. Sit in the seat.
2. Fasten the seat belt.
3. Disengage the park brake switch.

Testing Boom And Bucket Interlock System On A Hands-Only Skid Steer



CAUTION: Avoid injury! Stay clear of boom and bucket area. If test fails, boom and bucket will move.

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Sit in operator's seat, buckle seat belt, and engage park brake switch.
3. Start the engine.
4. Run engine at maximum engine speed.
5. Place park brake switch in the middle (run) position.
6. Pull left control handle up towards the ROPS to slowly raise boom. Release control handle. Pull right control handle down towards the seat to slowly curl bucket. Release pedal.
7. Unbuckle seat belt. Push handles up or pull handles down.

Result: Control handles, boom, and bucket should lock as soon as the seat belt is released.

The operator must complete the following sequence, to release the control handles, boom, and bucket:

1. Sit in the seat.
2. Fasten the seat belt.
3. Disengage the park brake switch.

Testing Seat Switch

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Sit in operator's seat, buckle seat belt, and engage park brake switch.
3. Start the engine.
4. Disengage park brake switch.
5. Raise up off the seat, but do not unbuckle seat belt or get out of skid steer.

Result: Park brake will be applied, the "Park Brake Engaged" and "Seat Belt Release" indicator lights will come on, and the boom and bucket functions will be locked.

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