

**4050 (006510)
4250 (009673)
4450 (019805)
Tractors**



OPERATORS MANUAL

**4050 (006510) 4250 (009673) 4450
(019805) Tractors**

OMRW22430 Issue G8 English

**John Deere Tractor Works
OMRW22430 Issue G8**

LITHO IN U.S.A.
ENGLISH



Introduction

Read This Manual carefully to learn how to operate and service your tractor correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your tractor and should remain with the tractor when you sell it.



This safety-alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

When you see this symbol on your machine or in your manual, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

Measurements in this manual are U.S. customary units and their metric equivalents.

Right-hand and left-hand sides are determined by facing in the direction of forward travel.



Worldwide symbols are used to assist identification and operation. In this manual, an identifying symbol is placed by the instructions like the example above for the symbol on the engine oil pressure gauge. The cylinder block in the symbol represents the engine, the drop signifies oil, and the arrows indicate pressure. Regardless of the language used in a nation, this symbol means engine oil pressure without translation.

Warranty on this machine appears on your copy of the purchase order which you should have received from your dealer when making your purchase. This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty.

Warranty and field improvements are a part of John Deere's product support program for customers who operate and maintain their equipment as described in this manual. Should the equipment be abused or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

The tire manufacturer's warranty supplied with your machine may not apply outside the U.S.

Record the Product Identification Number(s) in the space provided following Specifications. Accurately record all the characters because (should the product be stolen) tracing is sometimes through a computer match of letters and numbers. Also, your dealer needs this information when ordering parts. If you carry your operator's manual on the machine for reference, be sure to also record the identification number(s) on a separate sheet of paper and file it in a secure place not on the machine so you will still have a record in case the machine is stolen.

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

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Enter the link into your browser.

The full manual is available for immediate download.

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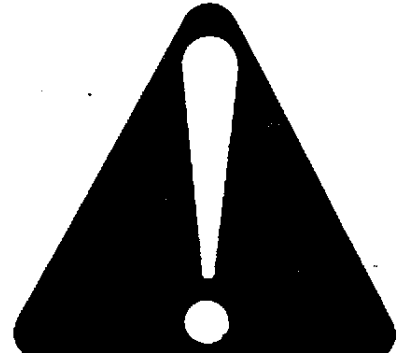
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Safety

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



AB6;T81389 053;ALERT 160687

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



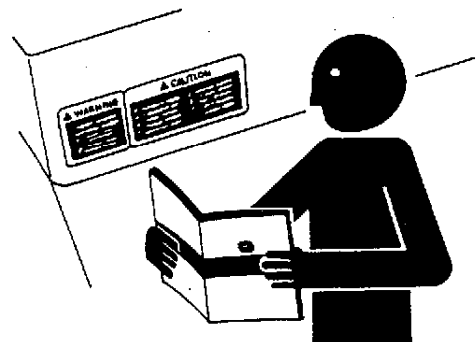
AB6;TS197 053;SIGNAL 071085

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



AB6;TS201 053;READ 230487

PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machinery runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

NEVER start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral or park.



AB6;TS177 053;BYPAS1 210585

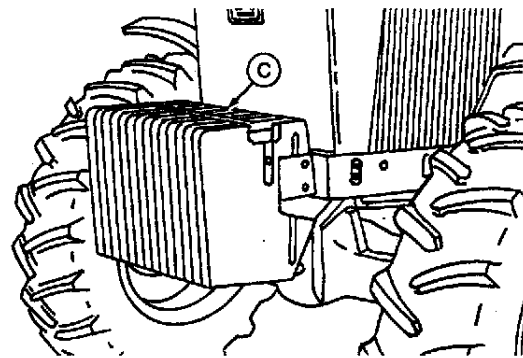
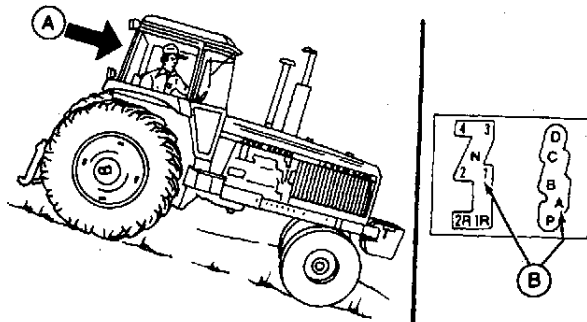


SHIFT TO LOW GEAR ON HILLS

Shift to a low gear (B) before descending a steep hill (A), to improve your control of the tractor with little or no braking. Make sure brake pedals are locked together. Never coast downhill.

When driving on icy or graveled surfaces, reduce speed and be sure tractor is properly ballasted to avoid skidding and loss of steering control.

Additional ballast (C) may be needed for transporting heavy integral implements. When implement is raised, drive slowly over rough ground, regardless of how much ballast is used.



AJ7;RW5692 L,RW5693 L U01;DRIVE SAFE1 281085

USE CAUTION ON HILLSIDES

Avoid holes, ditches, and obstructions which may cause the tractor to tip - especially on hillsides.

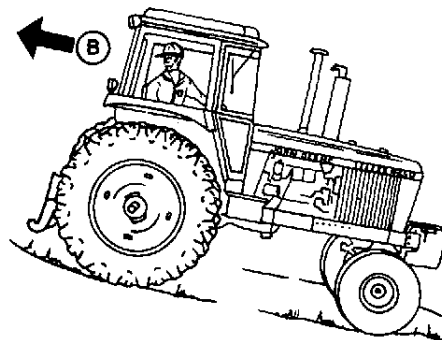
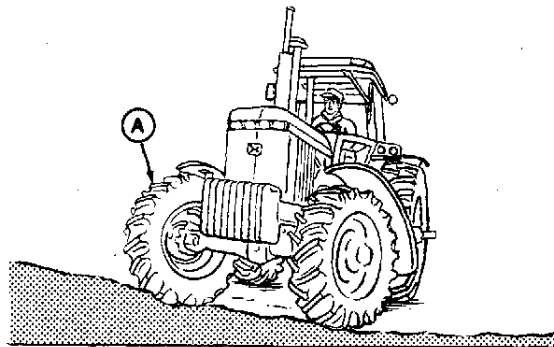
Front-wheel drive (A) greatly increases traction. When this option is used, extra caution is needed on slopes. Compared to 2-wheel drive, a front-wheel drive tractor maintains traction on steeper slopes, increasing the possibility of a tip over.

Never drive near the edge of a gully or steep embankment—it might cave in.

Driving forward out of a ditch or mired condition or up a steep slope could cause tractor to tip over rearward. Back out of these situations if possible (B).

Be especially careful when using single wheels. Danger of overturn increases greatly with narrow tread, 60 in. (1.50 m), at high speed.

Hitch towed loads only to drawbar. When using a chain, take up the slack slowly.



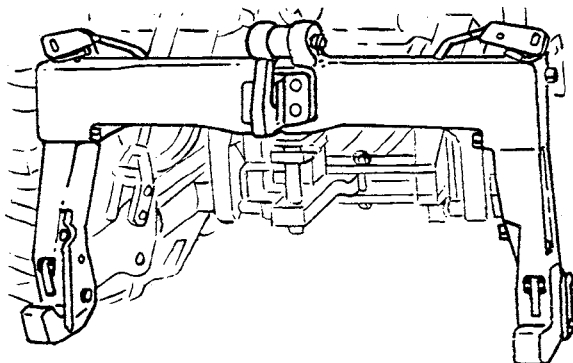
AJ7;RW5689 L,RW5690 L U01;HILL SIDE1 090585



COUPLE IMPLEMENT SECURELY

Securely couple implement by pushing sheet metal base of both hand latch controls down against turned up edge of latch rod brackets.

Secure draft link attaching pins by tightening retainer screws to 85 lb-ft (115 N·m).

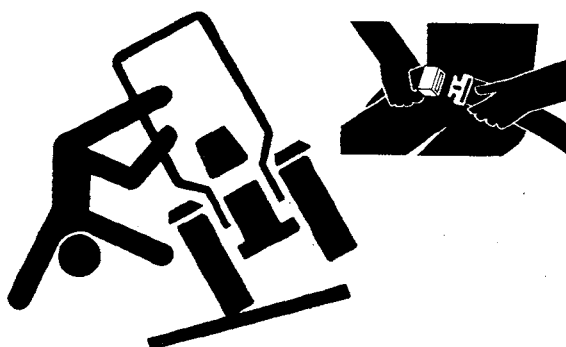


AJ7;RW1095 6 U01;COUPLE SECURE 200585

USE SEAT BELT PROPERLY

Use a seat belt when you operate with a roll-over protective structure (ROPS) to minimize chance of injury from an accident such as an overturn.

Do not use a seat belt if operating without a ROPS.

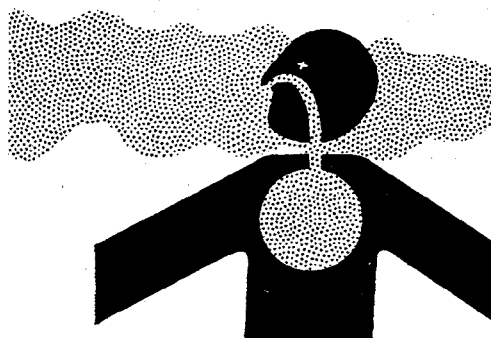


AB6;TS205 053;ROPS1 230487

AVOID EXHAUST FUMES

Never run engine in a closed building. Make sure service area is adequately ventilated.

Avoid inhaling exhaust gases produced by engine running. Exhaust gases, particularly carbon monoxide, may build up. Carbon monoxide is colorless, odorless, and potentially lethal.

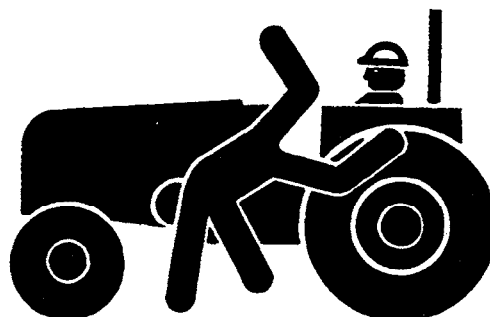


AJ7;RW1291 3 U01;AVOID FUMES 030388

KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



AB6;TS213 053;RIDER 160687



HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



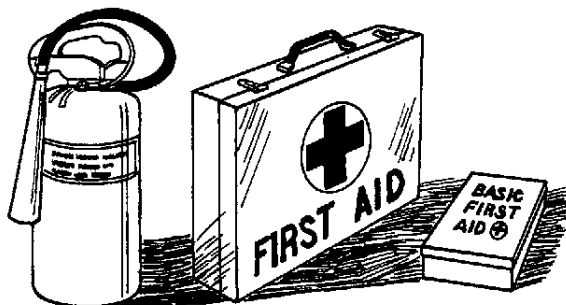
AB6;TS202 053;FIRE1 230487

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



AB6;TS186 053;FIRE2 080785

HANDLE STARTING FLUID SAFELY

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.



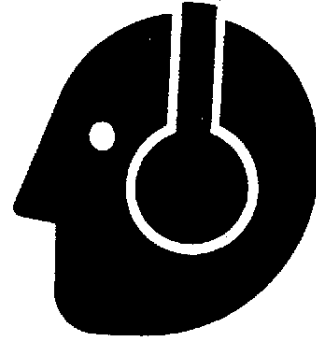
AB6;T6089A U 053;FIRE3 010288



PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

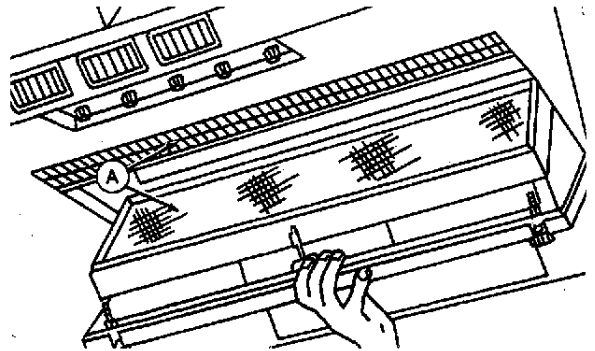
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AB6;TS207 U01;NOISE 150388

HANDLE CHEMICALS PROPERLY

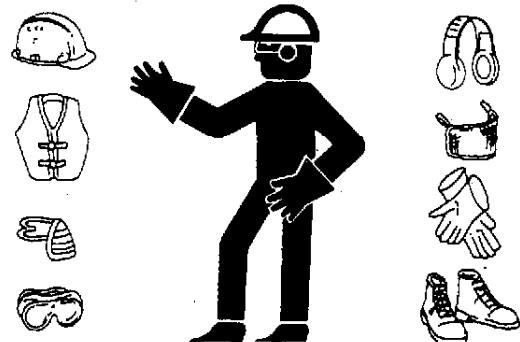
SOUND-GARD body air filters (A) are not designed to filter out harmful chemicals. Follow instructions given in the implement operator's manual and those given by the chemical manufacturer when using agricultural chemicals.



AJ7;RWS704 L U01;HANDLE CHEM 090585

WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.



AB6;TS206 053;WEAR2 230487



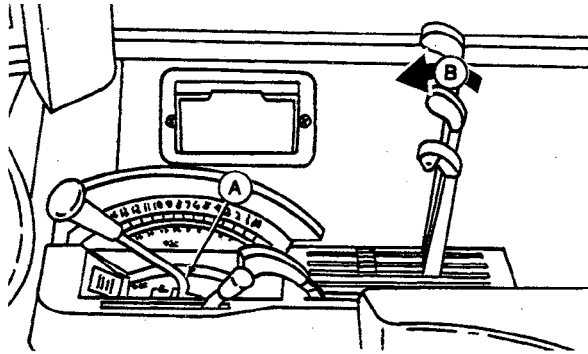
STAY CLEAR OF MOVING TRACTOR

Always place transmission in PARK (A) before dismounting. Leaving transmission in gear with engine stopped will NOT prevent the tractor from moving.

Be sure everyone is clear of tractor and attached equipment before starting engine. Some movement may occur as engine starts.

Never try to get on or off a moving tractor.

When tractor is left unattended, lower implements to the ground (B), stop the engine, and remove the key.



AJ7;RW5696L U01;STAY CLEAR2 200585

STAY CLEAR OF ROTATING DRIVELINES

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Wear close fitting clothing. Stop the engine and be sure PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.



AB6;TS198 053;PTO 160687

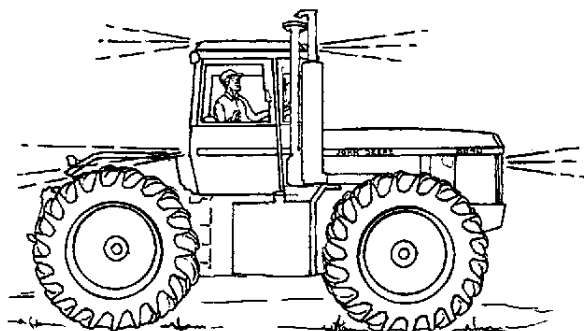


MAKE TRACTOR VISIBLE ON HIGHWAY

Turn light switch to "H" position. Never use white lights which are visible from the rear. Always dim head lamps before meeting another vehicle. Keep head lamps properly adjusted.

Add SMV emblem, reflectors, and auxiliary lighting to equipment as required for safety and by local regulations.

Before operating tractor on highway, be sure flashing warning lamps work properly. Adjust rear view mirror, and clean windows and SMV emblem.



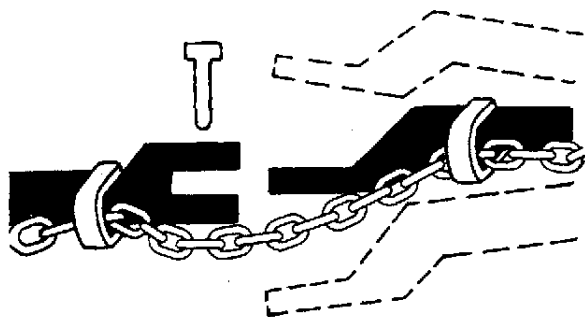
AJ7;RW4423 U01;USE LIGHT 051185

USE A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.

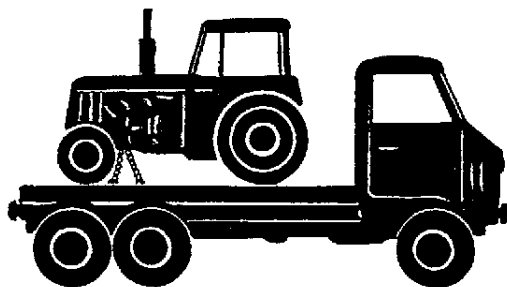


AB6;TS217 053;CHAIN 171287

TRANSPORT TRACTOR SAFELY

The best method for transporting a disabled tractor is to haul it on a flatbed carrier. Chain tractor to carrier securely. Do not chain around mechanical-front-wheel-drive shaft or axle housing.

If towing a tractor, never tow faster than 20 mph (32 km/h). Have an operator steer and brake tractor.



AJ7;RW1309 0 U01;HAUL IT2 220488

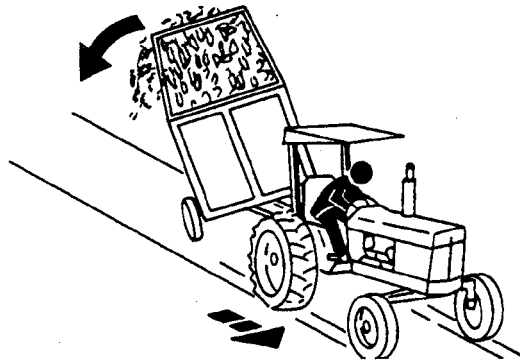


REDUCE SPEED WHEN TOWING LOADS

Braking to stop towed loads from transport speeds can cause the towed load to swerve and upset. Reduce speed if towed load weighs more than the tractor and is not equipped with brakes.

Follow recommended speed-weight ratio guidelines:

- Maximum speed is 20 mph (32 km/h) when towing load equal to or less in weight than the tractor.
- Reduce speed to 10 mph (16 km/h) when towing load more than double the tractor weight.
- Do not tow loads exceeding double the tractor weight.
- Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines.

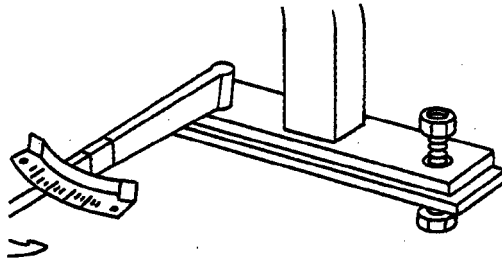


AB6;TS216 053;TOW 201187

KEEP ROPS INSTALLED PROPERLY

Make certain all parts are reinstalled correctly if the roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to proper torque.

The protection offered by ROPS will be impaired if ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting. A damaged ROPS should be replaced, not reused.



AB6;TS212 053;ROPS3 230487



PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate or service machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

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.

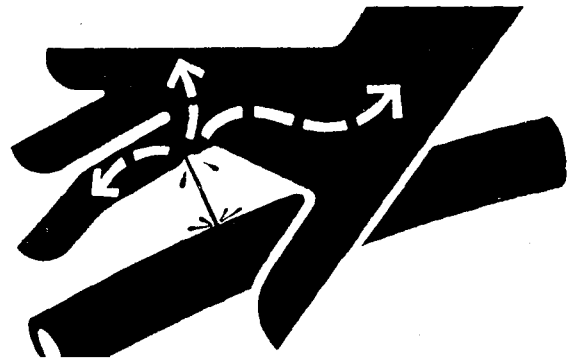


AB6;TS218 053;SERV 211287

AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before unhooking hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard to search for leaks.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



AB6;X9811 053;FLUID 180987



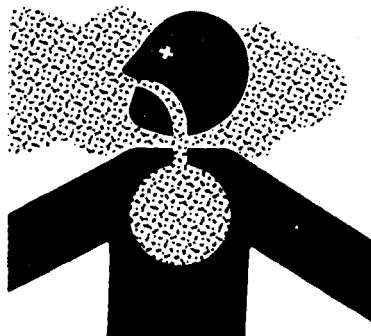
AVOID HARMFUL ASBESTOS DUST

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in John Deere products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates, and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding of asbestos containing materials. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, wet the asbestos containing materials with a mist of oil or water.

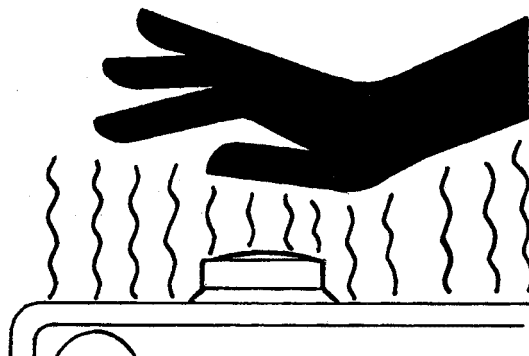
Keep bystanders away from the area.



AB6;TS220 053;DUST 050168

SERVICE COOLING SYSTEM SAFELY

Do not remove radiator cap when engine is hot. Shut the engine off and wait until it cools. Then turn the cap slowly to the first stop to relieve pressure before removing it completely.

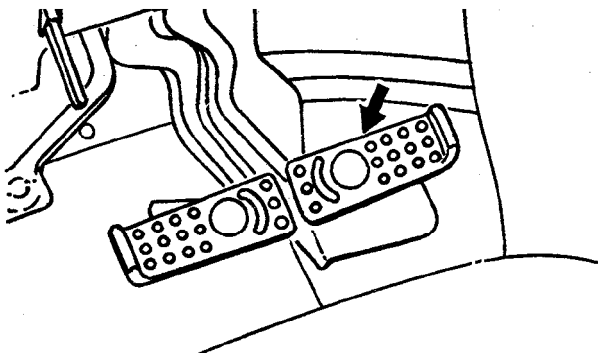


AJ7;RW1304 9 U01;COOL IT 010388

SERVICE BRAKE ACCUMULATOR SAFELY

Accumulator contains gas and oil under pressure. To avoid injury from escaping fluid, relieve all pressure from accumulator before disconnecting brake accumulator or brake valve. To do so open bleed screws and pump brake pedal with engine stopped, until pedal easily goes all the way down.

The accumulator is charged with dry nitrogen to a pressure of 500 psi (3450 kPa) (35 bar). If it needs recharging, have job done only by a qualified service person and only with dry nitrogen.

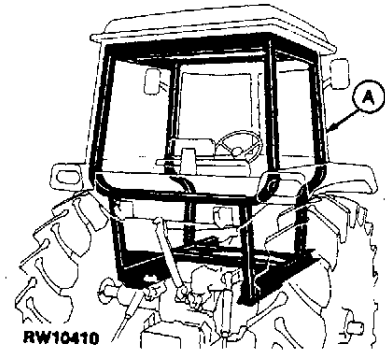


AJ7;RW8630 L U01;FIX BRAKE 311085



DO NOT MODIFY TRACTOR

Never modify structural members of the roll-over protective structure (ROPS) (A) of the SOUND-GARD body or ROLL-GARD protective frame by welding, bending, drilling or cutting as this might weaken the structure. If any structural member is damaged, replace the entire structure. Do not attempt repairs.



RW10410

AJ7;RW1041 0 U01;MODIFY RC 131265

STORE ATTACHMENTS SAFELY

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

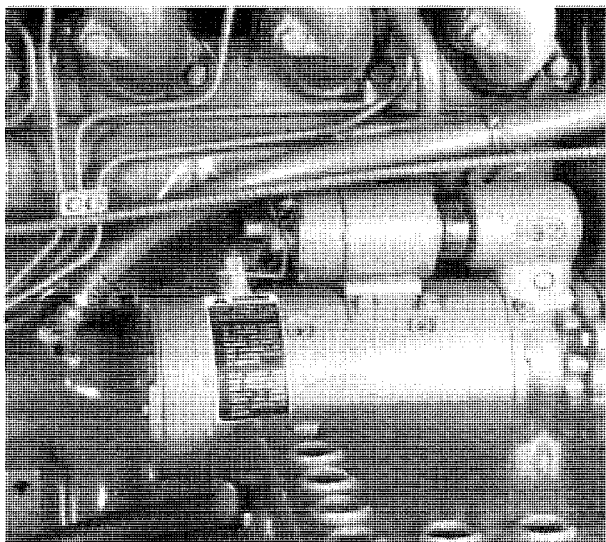
Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



AB6;TS219 053;STORE 120487

Safety Signs

PREVENT MACHINE RUNAWAY—4050 TRACTOR



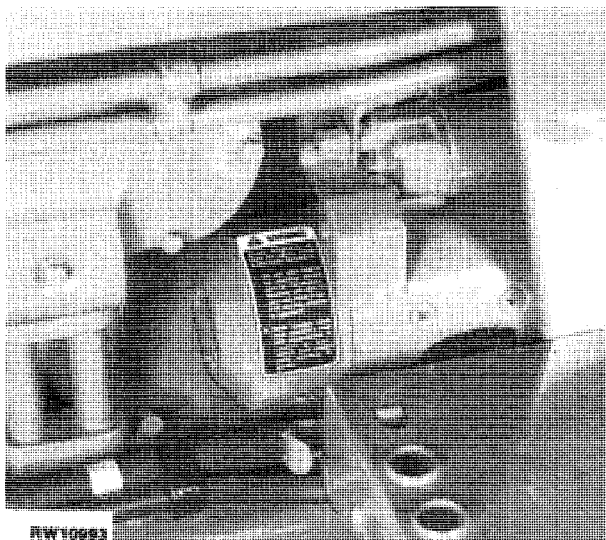
WARNING

AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.

1. Do not start engine by shorting across starter terminals. Machine will start in gear if normal starting circuitry is bypassed.
2. Start engine only from operator's seat with transmission in neutral or park. **NEVER** start engine while standing on ground.

AJ7/RW1167 2,RW1095 1 U01;READ SIGN9A 121285

PREVENT MACHINE RUNAWAY—4250 or 4450 TRACTOR



RW10953

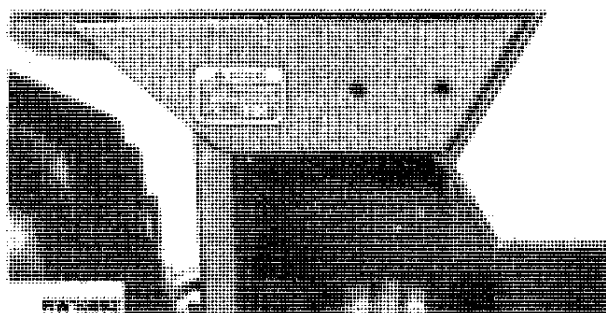
WARNING

AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.

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2. Start engine only from operator's seat with transmission in neutral or park. **NEVER** start engine while standing on ground.

AJ7/RW1099 3,RW1095 1,U01;READ SIGN9 121285

STAY CLEAR OF PTO



WARNING

TO AVOID BODILY INJURY:

1. Keep PTO master shield and all power drive system safety shields in place.
2. When operating PTO driven implements, install drawbar in the down position if offset, and use the following drawbar instructions:

PTO Shaft	PTO Shaft End to Hitch Pin Hole
540 rpm - 6 spline	14.00 in. (356 mm)
1000 rpm - 21 spline	16.00 in. (407 mm)
*1000 rpm - 20 spline	20.00 in. (508 mm)
*1.75 in. (44.5 mm) dia. shaft	

AJ7/RW1099 2,RW1095 0 U01;READ SIGN8 040685

AVOID HIGH-PRESSURE FLUID

Safety sign is located on brake accumulator line inside control support on right-hand side.

WARNING

Avoid injury from escaping fluid.

Escaping fluid under pressure can penetrate the skin causing serious injury. Accumulator contains gas and oil under pressure. Before removing accumulator, associated lines, plugs, fittings or tightening loose connections:

1. Relieve oil pressure from accumulator by actuating brakes with a brake bleed screw open.
2. Consult machine model technical and service manuals.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

R78080

Printed in USA

AJ7/RW1095 3 U01;READ SIGN5 010885

AVOID ESCAPING FLUID

Safety sign is located on brake accumulator inside control support on right-hand side.

WARNING

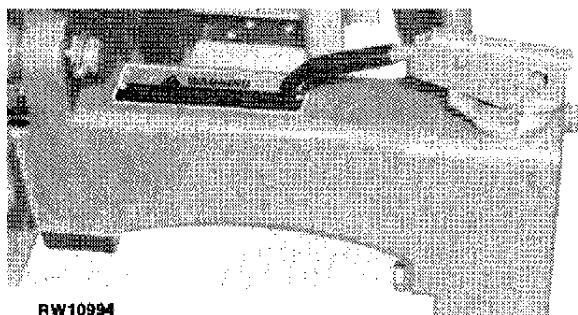
Avoid injury from escaping fluid. Contents of this accumulator are under pressure.

1. Refer to proper Machine Model Technical Manual for disassembly or charging instructions and equipment required.
2. Charge with DRY NITROGEN only.

Maximum Working Pressure
22060 kPa (3200 PSI)

AJ7/RW1101 1 U01;READ SIGN12 080885

COUPLE IMPLEMENT SECURELY



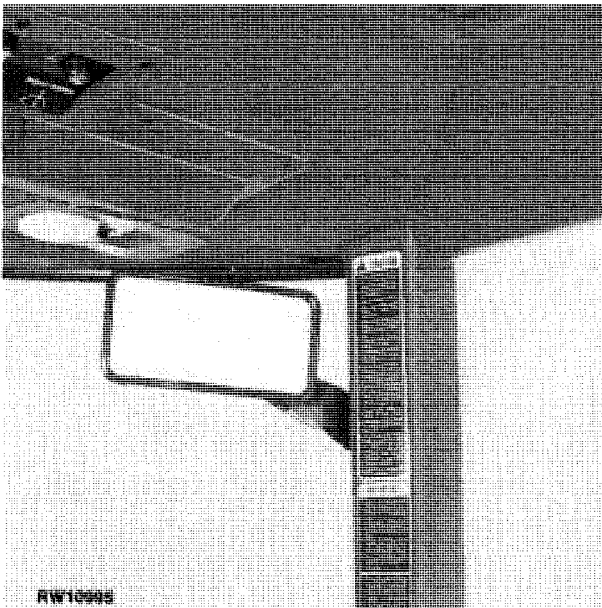
RW10994

WARNING

1. Securely couple implement by pushing sheet metal base of both hand latch controls down against turned up edge of latch rod brackets.
2. Secure draft link attaching pins by tightening retainer screws to 85 lb ft torque.

AJ7/RW1099 4,RW1095 4 U01;READ SIGN10 100386

OPERATE TRACTOR SAFELY



CAUTION

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

AJ7;RW1099 5, RW1113 8 U01;READ SIGN13 110386



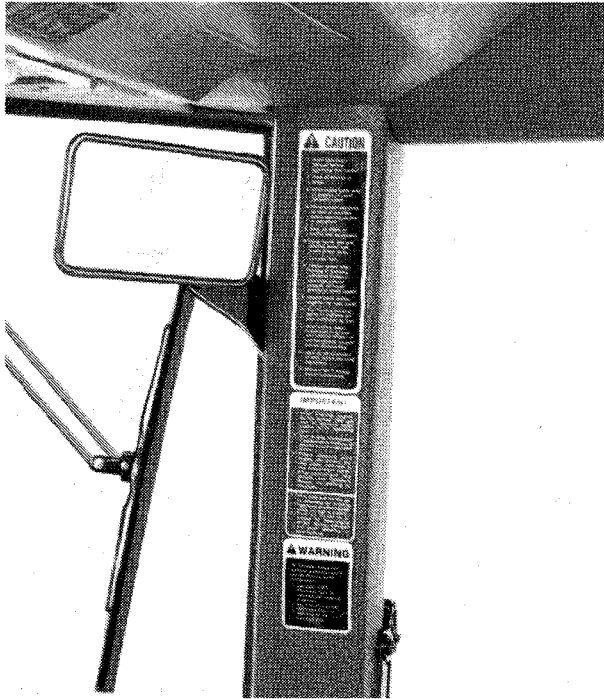
Suggest:

If the above button click is invalid.

Please download this document first, and then click the above link to download the complete manual.

Thank you so much for reading

DO NOT MODIFY ROPS



⚠ WARNING

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.

S

AJ7RW1169 5,RW1169 6 U01;READ SIGN18 100386

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