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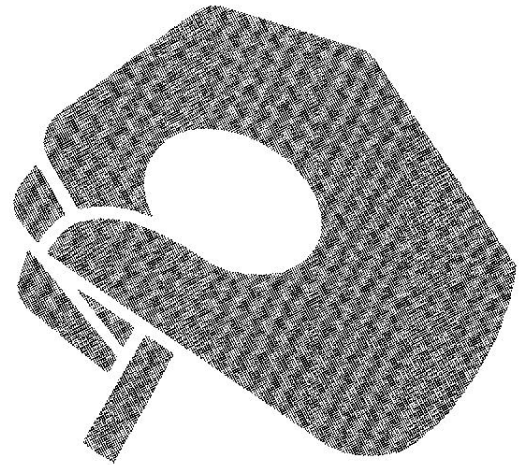
(002653-)

8960

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Tractors

OPERATORS MANUAL



John Deere Waterloo Works
OMAR109479 Issue B0
(Mark old manual OMRW25626K9 for
machines up to Serial No. above.)

LITHO IN U.S.A.

Introduction

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

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.

WRITE PRODUCT IDENTIFICATION NUMBERS in the Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

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. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be 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.



RW15247
-JUN-07DEC88

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

OMAR109479 B0-19-06MAR90

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A John Deere ILLUSTRATION™ Manual

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The full manual is available for immediate download.

<https://www.ebooklibonline.com>

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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.



O53,ALERT -19-26JAN90

T81389 -UN-07DEC88

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.

⚠ DANGER

⚠ WARNING

⚠ CAUTION

O53,SIGNAL -19-26JAN90

TS187 -19-30SEP88

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.



O53,READ -19-26JAN90

TS201 -UN-23AUG88



PROTECT BYSTANDERS

Be sure everyone is clear of tractor and attached equipment before starting engine or moving steering wheel. Tractor and equipment move, even with transmission in PARK. Some steering movement often occurs as engine starts.



RX, CRUSH -19-05MAY88

RW13091 -JUN-07DEC88

USE HAND HOLDS AND STEPS

Clean off slippery mud, grease, and any crop residue that may have accumulated on the steps and operator's platform of your tractor. Remember that chains and tools carried on the platform may interfere with pedal operation or cause a slip or fall from the tractor. Remove them.



RX, SLIP -19-05MAY88

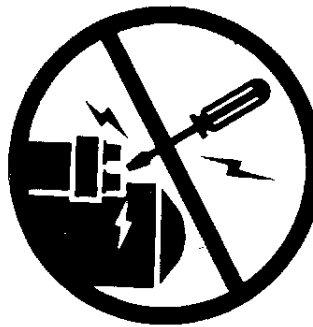
RW13082 -JUN-07DEC88

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.



O53, BYPAS1 -19-26JAN90

TS177 -JUN-11JAN89

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.



RX, 4WDBELT -19-19FEB90

RW16064 -JUN-05JAN89

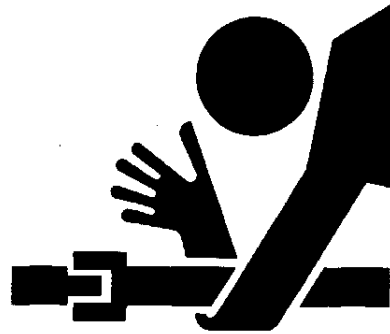


OPERATE TRACTOR SAFELY

Features designed into your tractor make operation safer and let it perform a wide variety of jobs. Use your tractor only for specific jobs it was designed to perform: implement carrier, load mover, remote power source, or transport unit—not a recreational vehicle.

Careless use or misuse can result in unnecessary accidents. Be alert to hazards of tractor operation. Understand causes of accidents and take every precaution to avoid them. Most common accidents are caused from:

- Tractor upsets
- Improper starting procedures
- Crushing and pinching during hitching
- Collisions with other motor vehicles
- Getting entangled in PTO shafts
- Falls from tractors



RX,HAZARD,S -19-25JUL89

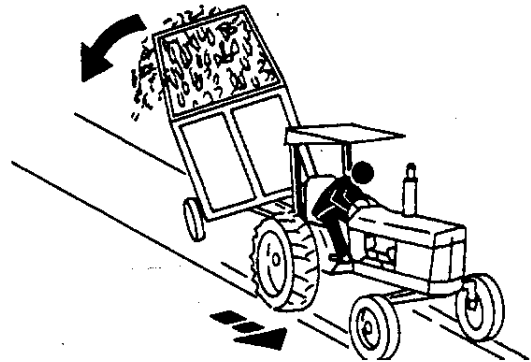
TS276 -UN-23AUG88

SHIFT TO LOW GEAR ON HILLS

Shift to a low gear before descending a steep hill to improve your control of the tractor with little or no braking. Use engine braking to reduce speed before applying tractor brakes. Run-away tractors often tip over. Never coast downhill.

When driving on icy, wet, or graveled surfaces, reduce speed and be sure tractor is properly ballasted to avoid skidding and loss of steering control. For best control, engage front-wheel drive, if equipped, by using "ON" mode, rather than "AUTO" mode for four-wheel braking.

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



RX,DRIVE,SAFE -19-07DEC88

TS216 -UN-23AUG88



USE CAUTION ON HILLSIDES

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

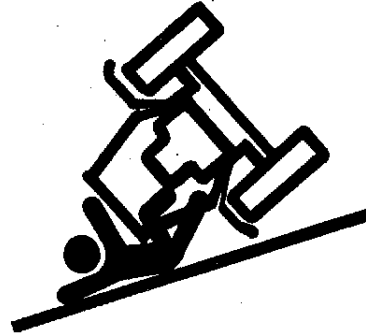
Never drive near the edge of a gully or steep embankment—it might cave in.

Be especially careful when using single wheels. Danger of overturn increases greatly with narrow tread, 80 in. (2032 mm), or less and high speed.

For hillside operation, always use front and rear dual wheels. Avoid sharp, uphill turns.

Keep transmission-hydraulic oil level at upper mark on dipstick when operating on hillsides. Low oil level might result in loss of steering and clutch engagement. If this should happen, hold tractor with brakes, shift to PARK, stop engine, and add hydraulic oil to proper level.

Before operating on extremely steep slopes, fill transmission-hydraulic system beyond overfill mark on dipstick 1—2 gal (4—8 L). This is particularly important when using large hydraulic cylinders, due to the volume of oil used to extend them.



RW13093 -JUN-07DEC88

RX,HILL,SIDE -19-19FEB90



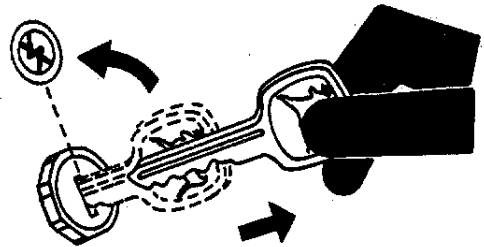
STOPPING AND PARKING TRACTOR

Your ability to stop your tractor and park it safely is just as important as being able to get it underway safely.

Tractor upsets, collisions, runaway tractors, and people being crushed under machines and implements can happen when operators ignore safety.

To avoid these accidents, take some precautions:

- Signal before stopping, turning, or slowing down on highways.
- Pull over to shoulder of highway before stopping, if possible.
- Slow down before braking.
- Pump brakes when stopping on slippery surfaces like ice, snow, mud, or loose gravel.
- Be careful when towing and stopping heavy loads.
- Shift to park or set parking brake.
- Lower all equipment when leaving tractor.
- Turn off all electrical switches and remove key.



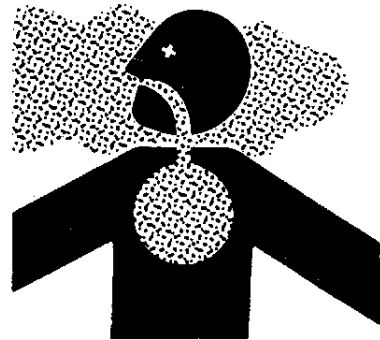
RX,STOP,PARK -19-18FEB90

TS230 -UN-24MAY99

WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



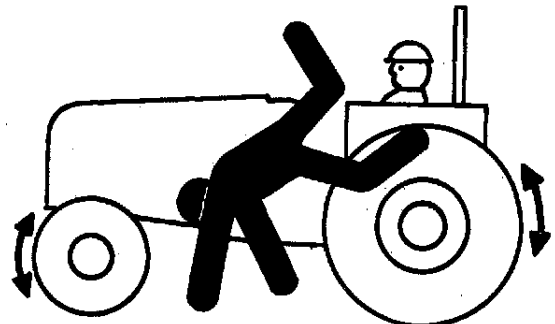
O53,AIR -19-26JAN90

TS220 -UN-23AUG88

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.



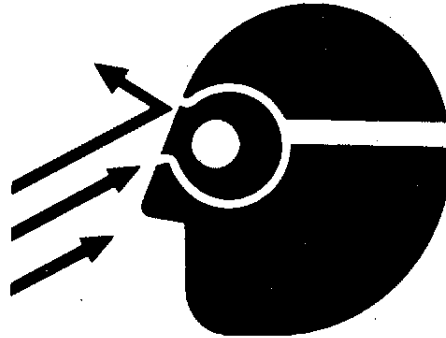
O53,RIDER -19-26JAN90

TS290 -UN-29AUG88



OPERATE RADAR UNIT SAFELY

Radar ground speed sensor emits a very low intensity microwave signal. It will not cause any ill effects during normal use. Although intensity is low, DO NOT look directly into face of sensor while in operation, to avoid any possible eye damage.



RX,SAFTY,RADAR -19-26NOV88

-JUN-23AUG88

TS266

HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



O53,FLAME -19-26JAN90

-JUN-23AUG88

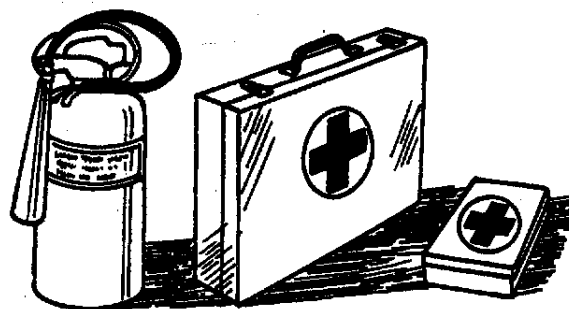
TS227

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.



O53,FIRE2 -19-26JAN90

-JUN-23AUG88

TS281



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.



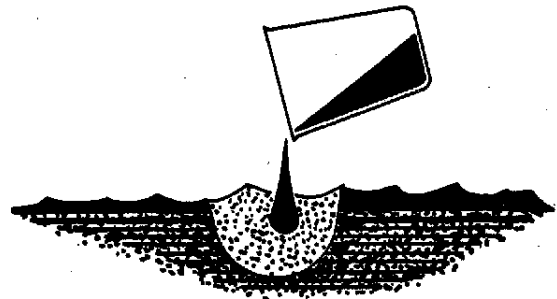
O53,FIRE3 -19-26JAN90

T6089AU -UN-23MAR89

DISPOSE OF FLUIDS PROPERLY

Improperly disposing of fluids can harm the environment and ecology. Before draining any fluids, find out the proper way to dispose of waste from your local environmental agency.

Avoid pouring oil into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, and other harmful waste.

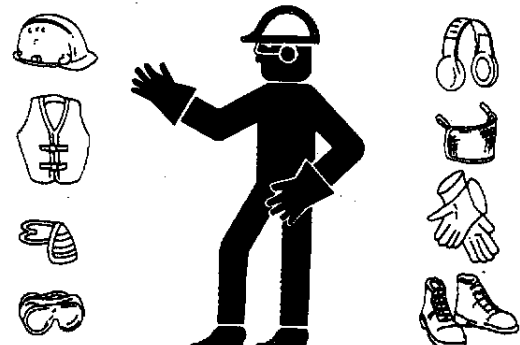


O53,DRAIN -19-26JAN90

TS222 -UN-23AUG88

WEAR PROTECTIVE CLOTHING

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



O53,WEAR2 -19-26JAN90

TS206 -UN-23AUG88



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.



O53,NOISE -19-26JAN90

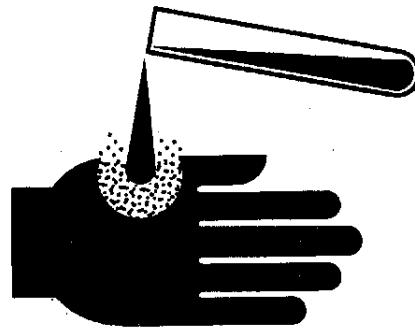
UN-23AUG88

TS207

HANDLE CHEMICALS PROPERLY

Know hazards of fertilizers, insecticides, herbicides, and other chemicals you use during tillage and planting operations. Avoid any contact with dust, spray mixes, and vapors, especially from deadly organic phosphates, which are fast-acting nerve poisons.

SOUND-GARD body air filters 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.



RX,HANDLE,CHEM -19-10NOV88

UN-23AUG88

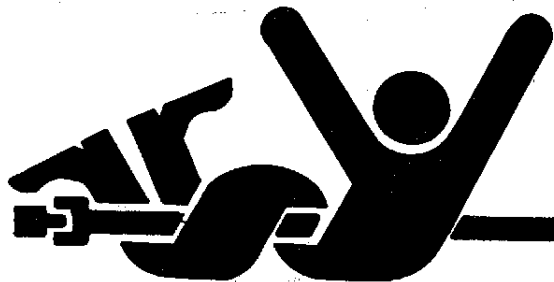
TS272

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.



O53,PTO -19-26JAN90

UN-23AUG88

TS198

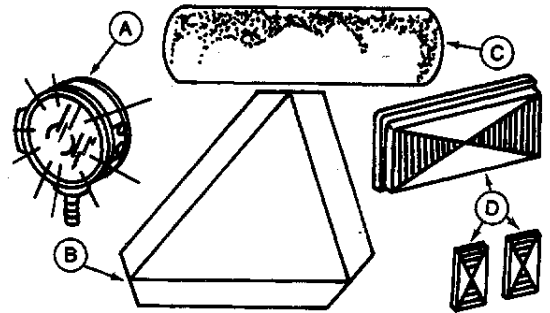


USE SAFETY LIGHTS AND DEVICES

When transporting your machine on a road or highway at night or during the day, use necessary safety lights. Check local governmental regulations. A safety lighting kit is available from your John Deere dealer.

Keep safety items in good condition. Replace missing or damaged items.

- | | |
|------------------------------|------------------|
| A—Lights | C—Reflector Tape |
| B—Slow Moving Vehicle Emblem | D—Reflectors |



N36564 -JUN-10FEB89

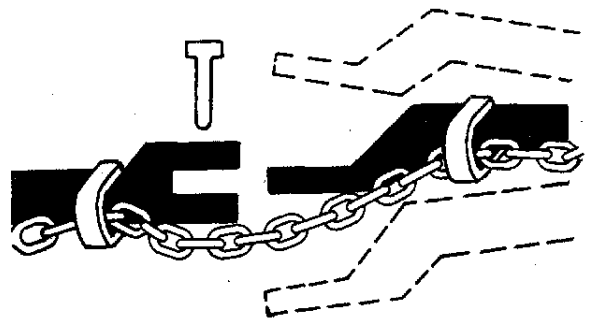
O53,WARN -19-26JAN90

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.



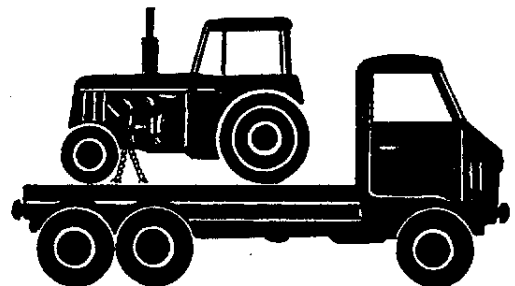
TS217 -JUN-23AUG88

O53,CHAIN -19-26JAN90

TRANSPORT TRACTOR SAFELY

The best method for transporting a disabled tractor is to haul it on a flatbed carrier. Chain tractor to carrier securely.

If towing a tractor, never tow faster than 10 mph (16 km/h) with rear wheels raised or faster than 5 mph (8 km/h) with all wheels on the ground. Have an operator steer and brake tractor.



RW13090 -JUN-07DEC88

RX,HAUL,IT1 -19-05MAY88

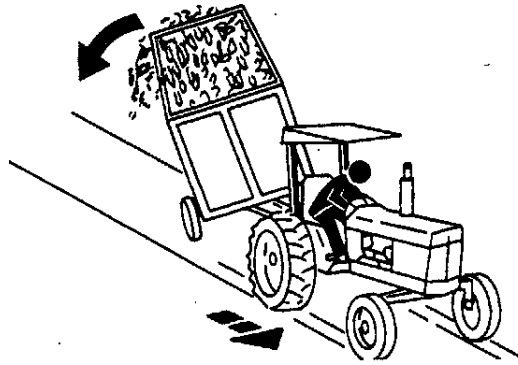


REDUCE SPEED WHEN TOWING LOADS

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 up to 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.



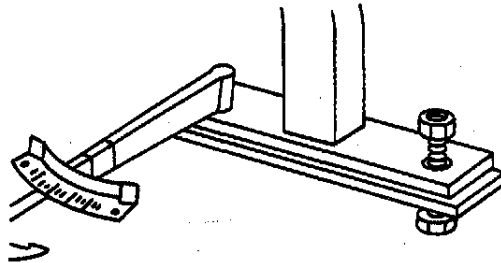
O53,TOW -19-26JAN90

TS216 -UN-23AUG88

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.



O53,ROPS3 -19-26JAN90

TS212 -UN-23AUG88



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.



O53,SERV

-19-26JAN90

TS216 -UN-23AUG88

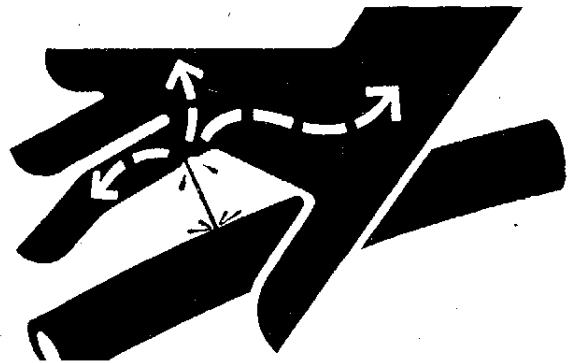
AVOID HIGH-PRESSURE FLUIDS

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 may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.



O53,FLUID

-19-26JAN90

X9811

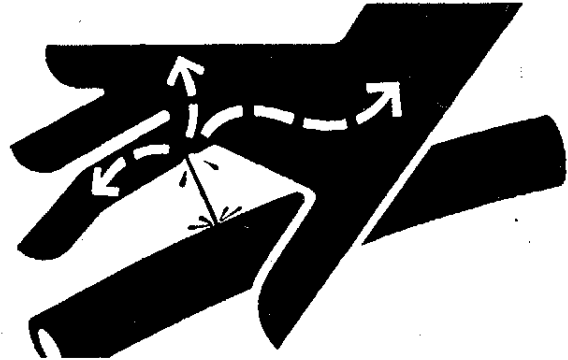
-UN-23AUG88



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.



-UN-23AUG88

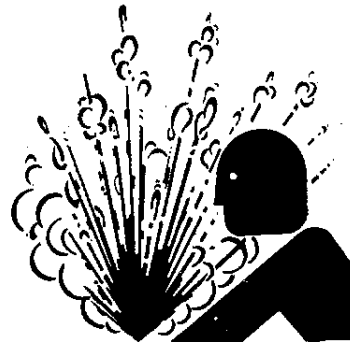
X9811

RX,BRAKE,FIX -19-26JUL89

SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.



-UN-23AUG88

TS281

O53,RCAP -19-26JAN80

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.



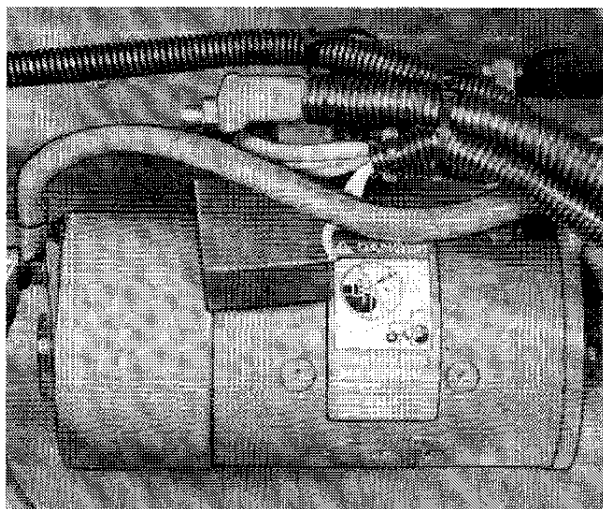
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TS219

O53,STORE -19-26JAN80

Safety Signs

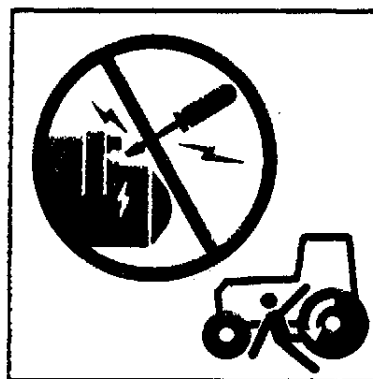
PREVENT MACHINE RUNAWAY



-UN-31OCT89

RW17481

! DANGER



**Start only from
seat in park or
neutral.**

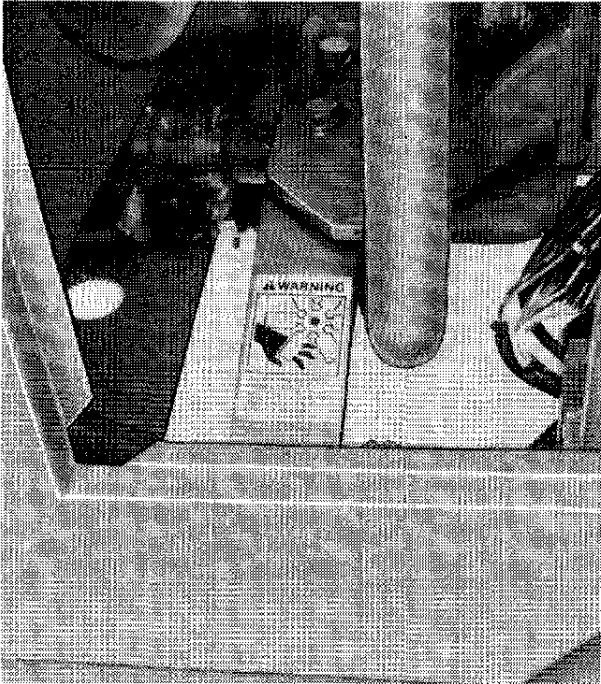
**Starting in
gear kills.**

-19-06APF89

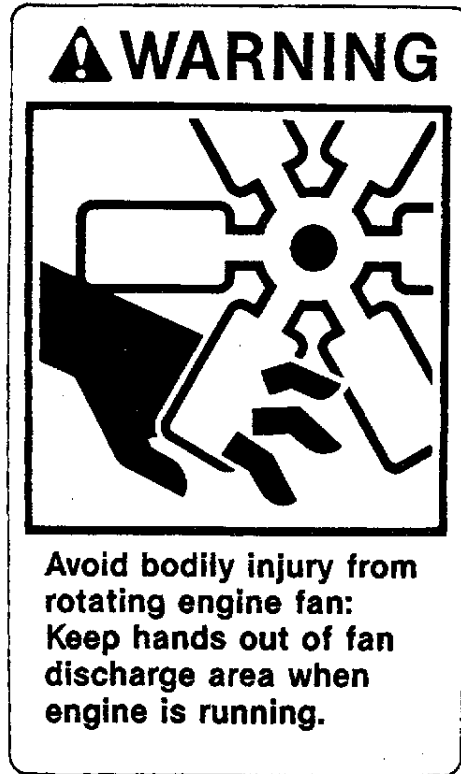
RW15224

RX,J424,10 -19-16OCT89

STAY CLEAR OF ENGINE FAN



RW15251 -JUN-07DEC88



RW15252 -19-03APR89

RX,H55 -19-29NOV88



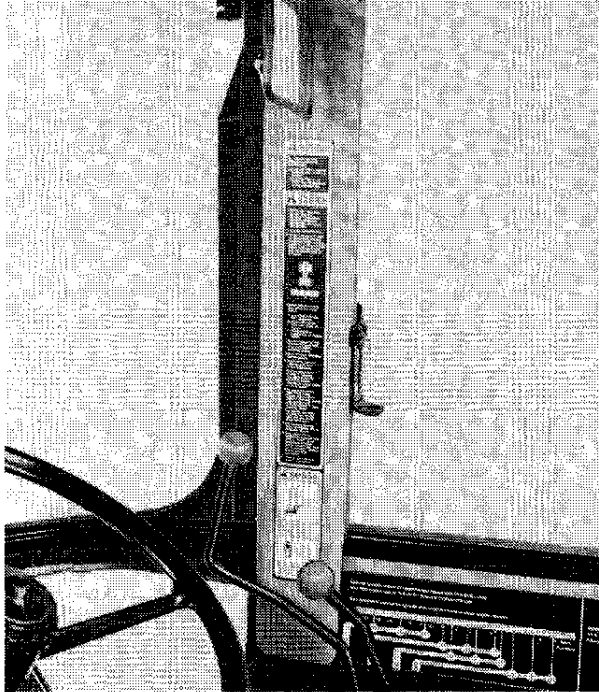
Suggest:

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

**OPERATE TRACTOR SAFELY—
STAY CLEAR OF MOVING TRACTOR—
DO NOT MODIFY ROPS**



RW17482 -JUN-31OCT89

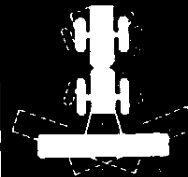
WARNING

To maintain operator protection and ROPS certification:

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

CAUTION

1. Before operating this tractor, read the Operator's Manual for complete operating instructions and safety information.
2. Keep all shields in place.
3. Be sure everyone is clear of tractor and attached equipment before starting engine or moving steering wheel, because tractor and equipment move as pictured.



4. Install lock-pin or lock-bars on tractor hinge before:
 - a. operating stationary PTO equipment.
 - b. performing service work near center of tractor.
 - c. lifting tractor or transporting on another vehicle.

Be sure lock-pin or lock-bars are removed from hinge area before operating tractor.
5. Keep all riders off tractor and equipment.
6. Keep hands, feet and clothing away from power-driven parts.
7. Reduce speed when turning or applying individual brakes or operating around hazards, on rough ground or steep slopes.
8. Be especially careful when using single wheels. Danger of an overturn increases greatly with narrow tread (2 m [80 inches] or less) and high speed.

For hillside operation, use only dual wheels, front and rear. Avoid sharp uphill turns.
9. Use flashing warning lights on highway unless prohibited by law.
10. Stop engine, lower implement to ground and shift to "PARK" or set hand-brake securely before dismounting. Wait for all movement to stop before servicing machinery.
11. Remove key if leaving tractor unattended.

RW17863 -19-07NOV89

RX,J545 -19-25OCT89

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