

4050, 4250 and 4450 Tractors



TECHNICAL MANUAL 4050, 4250 and 4450 Tractors

TM1353 (01SEP87) English

TM1353 (01SEP87)

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ENGLISH



4050, 4250 AND 4450 TRACTORS TECHNICAL MANUAL TM-1353 (SEP-87)

CONTENTS—REPAIR SECTIONS

PUBLICATION NUMBER CHANGE

This technical manual was formerly TM-1257. The number was changed to TM-1353 when engine information was removed. Some pages still carry the old publication number. For engine information, refer to engine component technical manual, CTM-1, 6466 Engines or to CTM-4, 6359 Engines. This machine technical manual covers removal and installation of the engine components. The component manual covers basic repair of the engine. For main hydraulic pump repair information, refer to component technical manual, CTM-7, Radial Piston Pumps.

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U10;010GEN AX3 021087

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INTRODUCTION

This manual is part of a total service support program.

FOS Manuals—reference

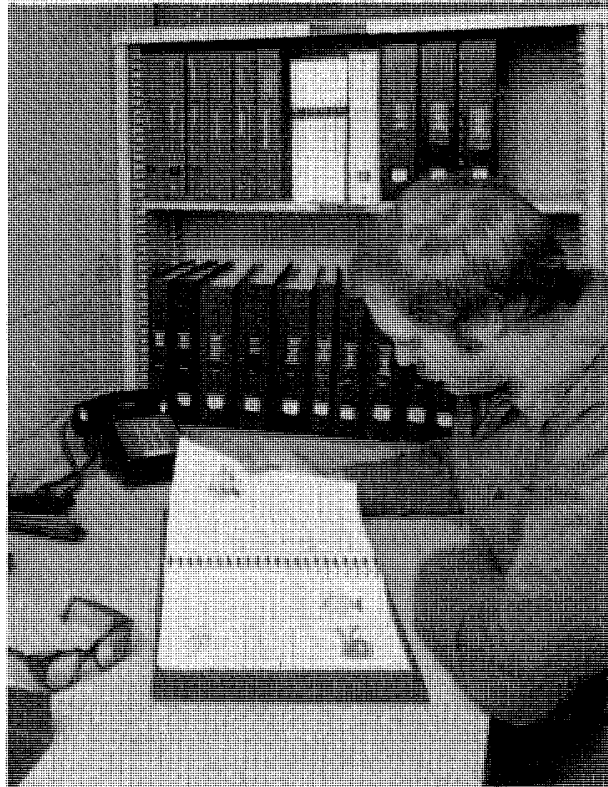
Technical Manuals—machine service

Component Manuals—component service

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

Technical Manuals are concise service guides for specific machines. Technical manuals are on-the-job guides containing only the vital information needed by an experienced service technician.

Component Technical Manuals are concise service guides for specific components. Component technical manuals are written as stand alone manuals covering multiple machine applications.



AB6;RW5559 053;INTR02 030785

FEATURES OF THIS TECHNICAL MANUAL

John Deere ILLUSTRATION format emphasizing illustrations and concise instructions in easy-to-use modules.

Emphasis on diagnosis, analysis, and testing so you can understand the problem and correct it.

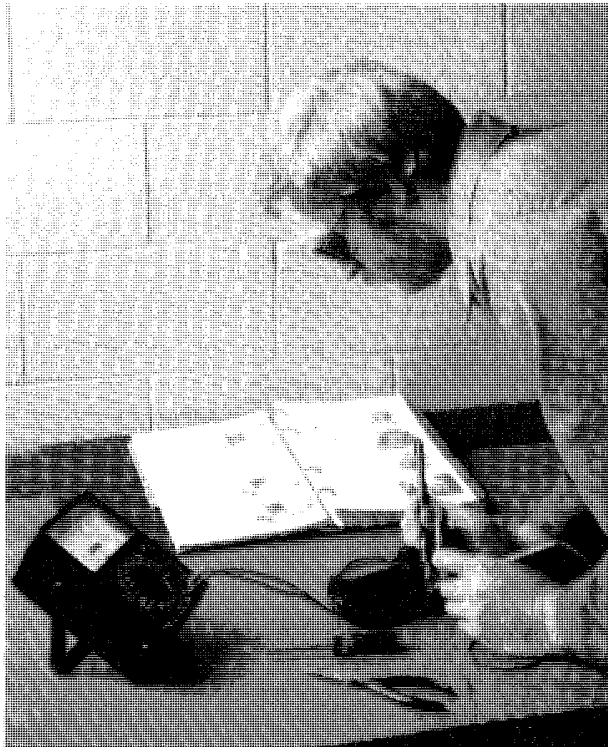
Diagnostic information presented with the most logical and easiest to isolate problems first to help you identify the majority of routine failures quickly.

Step-by-step instructions for teardown and assembly.

Summary listing at the beginning of each group of all applicable specifications, wear tolerances, torque values, essential tools, and materials needed to do the job.

An emphasis throughout on safety—so you do the job right without getting hurt.

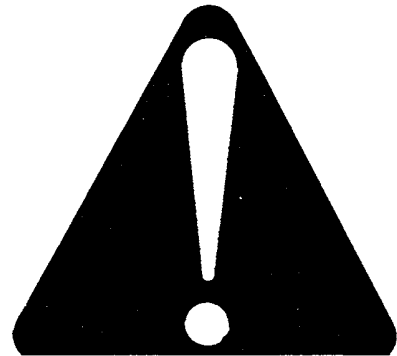
This technical manual was planned and written for you—an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Refer to it when you need to know correct service procedures or specifications.



AB6;RW5560 053;INTR03 071085

SAFETY AND YOU

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



AB6;T81389 053;TMSAFE 071085

IMPORTANT

The **IMPORTANT** message identifies potential problems which may cause consequential damage to tractor. Following recommended procedure will instruct technician how to avoid problem.

U10;010INT D 101281

NOTES

The word *NOTE* is followed by a statement that identifies a qualification or exception to a previous statement. A "NOTE" may also identify nice-to-know information pertinent to, but not directly related to previous statement.

U10;010INT E 101281

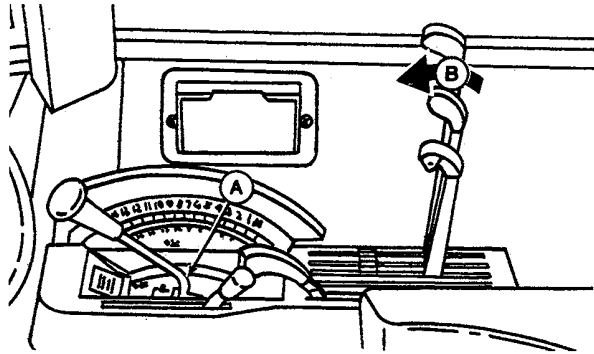
STAY CLEAR OF MOVING TRACTOR

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.



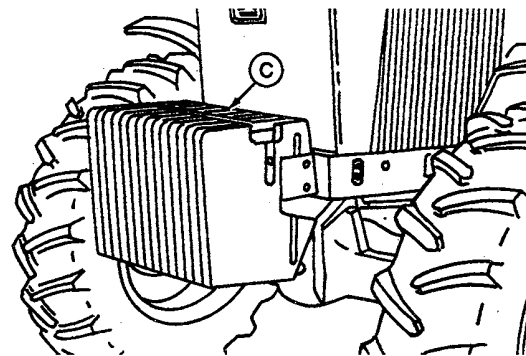
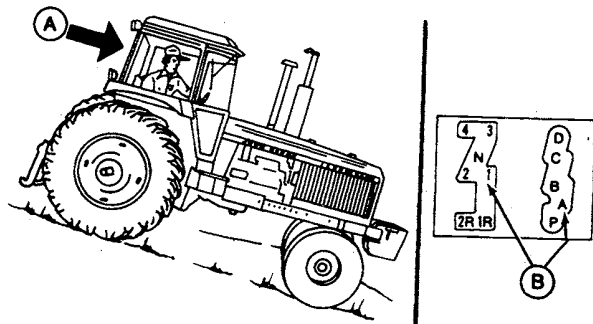
AJ7;RW5696L U01;STAY CLEAR2 200585

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.

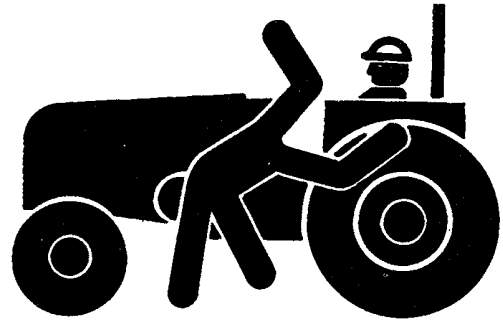


AJ7;RW5692 L,RW5693 L U01;DRIVE SAFE1 281085

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.

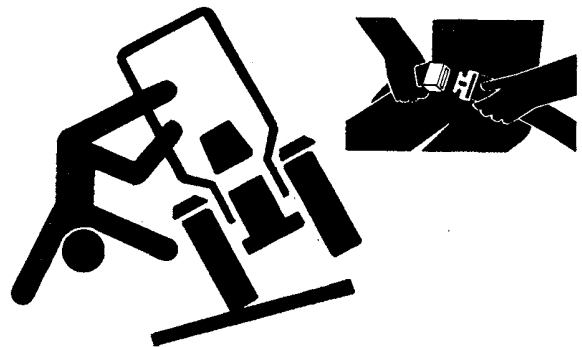


AB6;TS213 053;RIDER 160687

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.

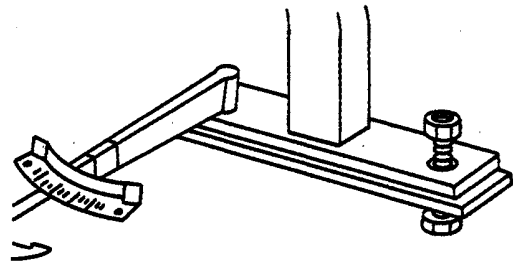


AB6;TS205 053;ROPS1 230487

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.



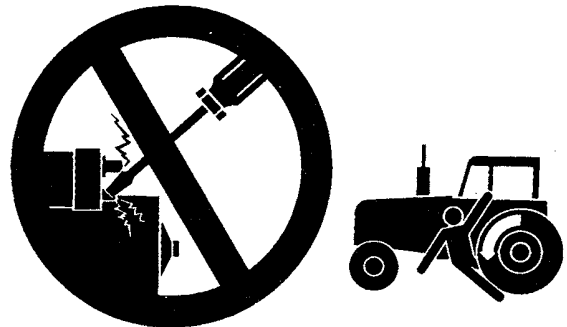
AB6;TS212 053;ROPS3 230487

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

TOW EQUIPMENT PROPERLY

Use caution when towing loads at transport speeds. Reduce speed if towed load weighs more than the tractor and is not equipped with brakes. Avoid hard braking applications. (Consult implement operator's manual for recommended transport speeds.)

Use additional caution when transporting towed loads under adverse surface conditions, when turning, or on inclines.

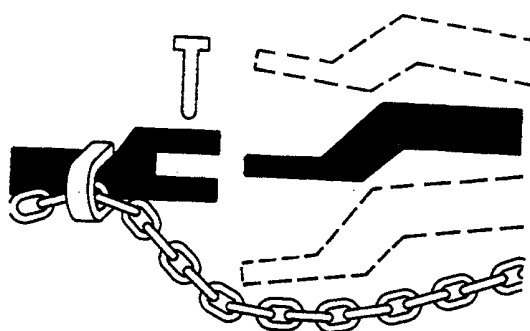
U01;TOW 061284

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;TS208 053;CHAIN 180987

PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work.

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. 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.

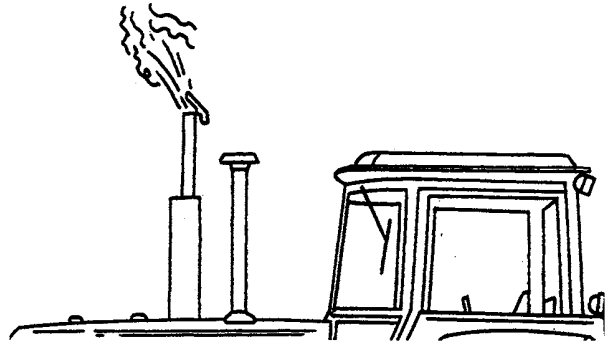
Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.



AB6;TS209 053;SERV 160687

AVOID EXHAUST FUMES

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



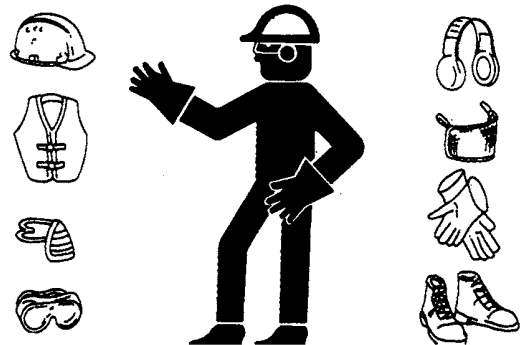
AJ7;RW5703 L U01;AVOID FUMES 090585

WEAR PROTECTIVE CLOTHING

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

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;TS206 053;WEAR 230487

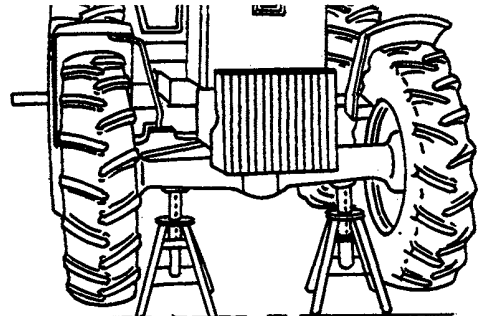
SERVICE TRACTOR SAFELY

Do not service the tractor while it is in motion or while the engine is running.

If servicing front-wheel drive equipped tractor with rear wheels supported off ground and rotating wheels by engine power, always support front wheels in a similar manner. If front wheels are not raised, loss of electrical power or transmission-hydraulic system pressure will engage front driving wheels and pull rear wheels off support. Under these conditions, the front-drive wheels can engage even with switch in disengaged position.

Reinstall all shields removed during service.

The air conditioning system is pressurized. Improper servicing may cause refrigerant to penetrate eyes and skin or cause burns. Special equipment and procedures are required to service air conditioning system. (See your John Deere dealer.)



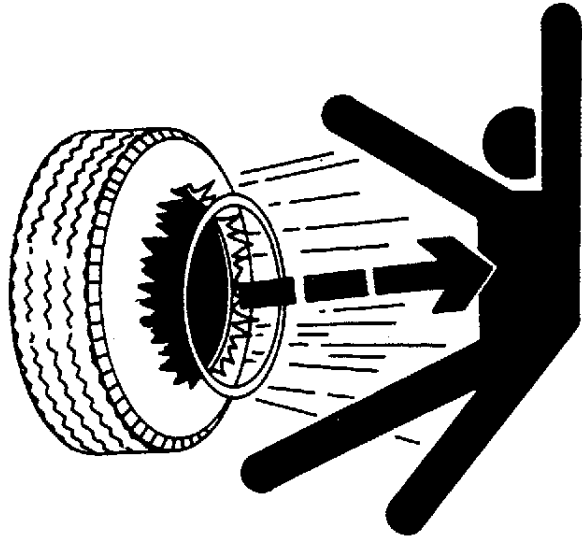
AJ7;RW5700 L U01;WORK SAFE1 090585

SERVICE TIRES SAFELY

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed 35 psi (241 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead and reinflate.

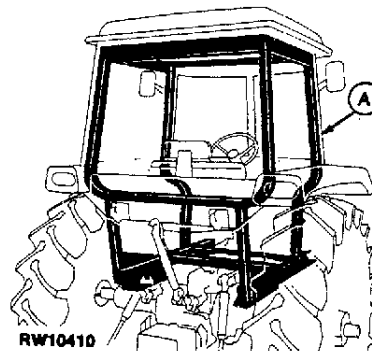
Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.



AB6;TS211 U01;TIRE 051087

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.



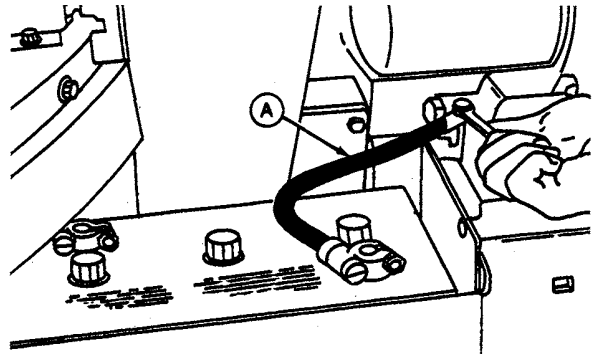
RW10410

AJ7;RW1041 0 U01;MODIFY RC 131285

OBSERVE ELECTRICAL SERVICE PRECAUTIONS

Keep all sparks and flames away from batteries, as gas given off by electrolyte is explosive. To avoid sparks, connect ground cable (A) last and disconnect it first. When using a booster battery, follow instructions in operator's manual.

To avoid shocks and burns, disconnect battery ground cable before servicing any part of electrical system.

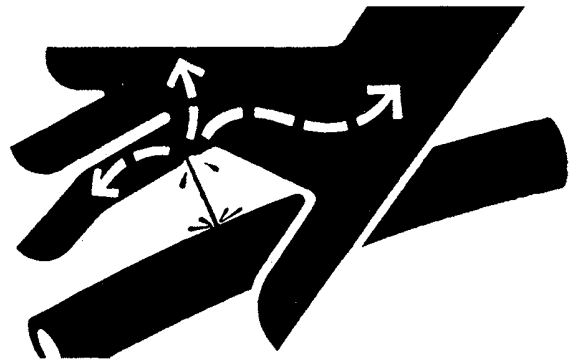


AJ7;RW5701L U10;0101NT EX1 210682

AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting 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.

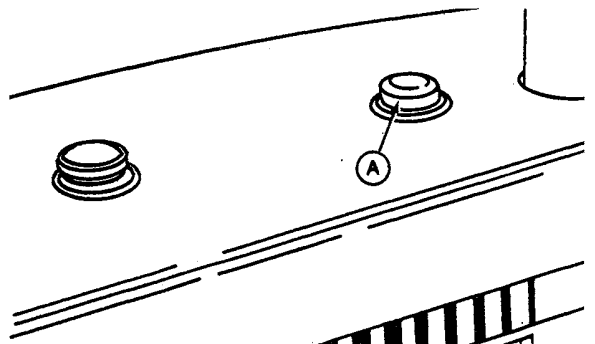
If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



AB6;X9811 053;FLUID 180987

SERVICE COOLING SYSTEM SAFELY

Do not remove radiator cap (A) 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.

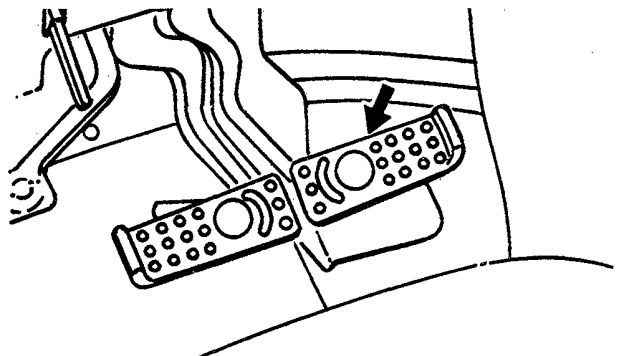


AJ7;RW5702 L U01;COOL IT 090585

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

AVOID EXPLOSIONS OR FIRE

Batteries produce explosive gas. Before using booster batteries, read instructions in operator's manual.

Before connecting or disconnecting battery charger, turn the charger off to avoid sparks. See instructions in operator's manual.

Be careful with starting fluid or any type of fuel.

Never smoke while handling fuel.



AC3;RW5895 U01;FIRE 091184

PROTECT AGAINST NOISE

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

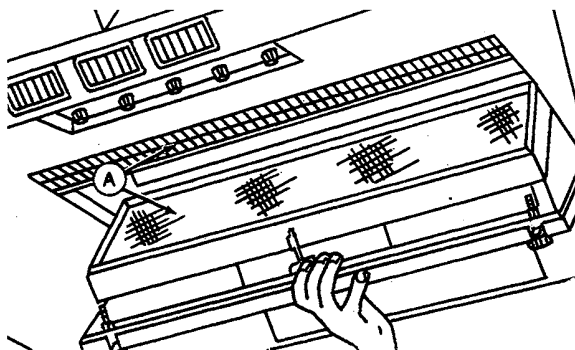
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AB6;TS207 053;NOISE 230487

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.



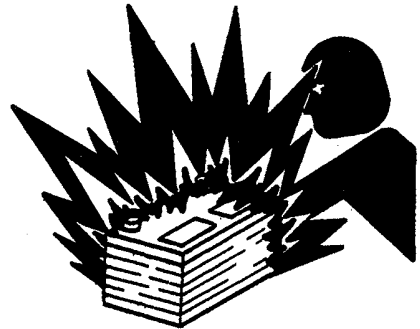
AJ7;RW5704 L U01;HANDLE CHEM 090585

PREVENT BATTERY EXPLOSIONS

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace it last.



AB6;TS204 U01;EXPLO 021087

AVOID ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoid breathing fumes when electrolyte is added.
4. Avoid spilling or dripping electrolyte.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10-15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



AB6;TS203 U01;ACID 021087

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.



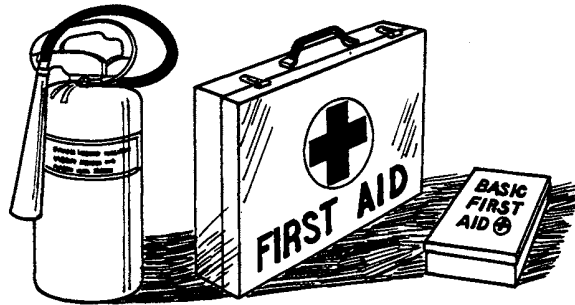
AB6;TS202 053;FIRE1 230487

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;T6098A U 053;FIRE3 160687

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Adjust Wheel Spacing	10-05-09	Does Engine Stop Knob Operate Correctly	10-05-16
Adjust Front Wheel Toe-In	10-05-10	Are Brakes Operating Correctly With Engine On/Off	10-05-17
On MFWD: (If Equipped), Set Steering Stops	10-05-10	Does Transmission Operate Correctly In All Gears (And In Park)	10-05-17
Torque Wheel Hardware To Specifications	10-05-11	Does Hydraulic System Operate Properly	10-05-17
Lubricate All Grease Fittings	10-05-11	Does PTO Operate Correctly	10-05-18
Follow Break-In Procedure	10-05-11	Are Coolant Lines Free Of Leaks	10-05-18
Verify Factory Services	10-05-11	Are Engine Oil Lines Free Of Leaks ...	10-05-18
Is Engine Crankcase Oil Level Correct	10-05-11	Are Fuel Lines Free Of Leaks	10-05-18
		Are Hydraulic/Transmission Lines Free Of Leaks	10-05-19
		Are Seat Belts Installed And Operational, If Equipped	10-05-19
		Are Decals Smooth And Neat	10-05-19
		Is Paint Coverage Acceptable	10-05-19

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CONTENTS—Continued

**GROUP 05 - PREDELIVERY, DELIVERY AND
AFTER-SALE SERVICES - CONT.**

Is Overall Tractor Appearance Acceptable	10-05-19
If Equipped, Does SGB Door Operate Properly	10-05-19
If Equipped, Is SGB Upholstery Neat In Appearance	10-05-20
If Equipped, Is Interior of SGB Clean	10-05-20
Delivery Service	10-05-20
After Sale Inspection	10-05-21
Inspect Engine	10-05-22
Are There Any Oil, Fuel Or Coolant Leaks	10-05-22
Is Fan Belt Tension Correct	10-05-22
Are Engine Idle Speeds Correct	10-05-23
Does Fuel Shut-Off Operate Correctly	10-05-23
Is Throttle Lever Friction Disk Adjusted Correctly	10-05-23
Inspect Electrical System	10-05-23
Does Neutral Start Switch Operate Correctly	10-05-23
Do All Lights Operate Correctly	10-05-24
Does Air Conditioner Operate Correctly	10-05-24
Is Battery At Full Charge	10-05-25
Inspect Power Train	10-05-25
Is Transmission Operating In All Gears And In Park	10-05-25
Is Differential Lock Operating Correctly And Adjusted With Brake Pedal	10-05-25
Is PTO Operating Correctly And Are Shields In Place	10-05-26
Inspect Hydraulic System	10-05-26
Is Rockshaft Operating Correctly	10-05-26
Are There Any Visible Oil Leaks	10-05-27

Inspect Steering And Brakes	10-05-27
Do Brakes Operate Correctly With Engine On And Off	10-05-27
Does Steering Operate Correctly Both Left And Right	10-05-28
Inspect Operator Station	10-05-28
Are SGB Or ROPS Mounting Tight And Properly Installed	10-05-28
Is Seat Operating Correctly	10-05-29
Are All Gauges And Indicator Lights Operating Correctly	10-05-29
Are Following Fluid Levels Correct:	10-05-29
Engine Crankcase	10-05-29
Engine Coolant	10-05-30
Hydraulic System	10-05-30
Battery	10-05-30
Does Customer Understand Proper Operation And Maintenance Of Tractor	10-05-30

GROUP 10 - TUNE-UP

Make Preliminary Engine Tests	10-10-01
Service Air Cleaner	10-10-02
Tighten Air Intake Connections	10-10-02
Clean Crankcase Breather Tube	10-10-02
Clean Grille Screens	10-10-02
Clean Radiator And Oil Cooler	10-10-03
Test Radiator And Cap	10-10-03
Check Alternator And Compressor Belt	10-10-03
Check And Adjust Injection Pump Timing	10-10-03
Check And Adjust Idle Speeds	10-10-03
Replace Fuel Filters	10-10-04
Bleed Fuel System	10-10-04
Service Batteries	10-10-04
Make Yearly Cooling System Flush	10-10-05
Make Final Engine Test	10-10-05

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