

2350 and 2550 Tractors



OPERATORS MANUAL 2350 and 2550 Tractors

OML39648 Issue J5 English

John Deere Werke Mannheim
OML39648 Issue J5

LITHO IN U.S.A.
ENGLISH





INSPECTIONS

We appreciate the confidence you have shown in John Deere and your John Deere dealer for the purchase of this equipment.

We want you to have the best performance from your new machine. To accomplish this, your dealer will perform a Predelivery Inspection and will familiarize you with the proper and safe operation of this machine.

After the machine has operated the first 100 hours, you should contact your dealer and arrange an appropriate date at which the After-Sale Inspection will be performed. It will be performed most effectively in the workshop of your dealer.

IMPORTANT WARRANTY INFORMATION

The warranty on this tractor 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 may be denied. Setting fuel delivery beyond specifications or otherwise over-powering machines will result in such action.

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

©Deere & Co., European Office
D-6800 Mannheim

All information, illustrations, and specifications contained in this operator's 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.

SAFETY



CAUTION: This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

IMPORTANT: This machine is designed and manufactured according to JOHN DEERE specifications. To avoid accidents and to assure optimum performance the machine must not be modified or altered in ways not approved by JOHN DEERE, nor must it be used in conditions or for purposes it is not designed for.

To assure safe operation of this machine, read the Safety Rules on the first pages of this manual.

MEASUREMENTS

Your operator's manual contains the international standardized SI metric measurement system.

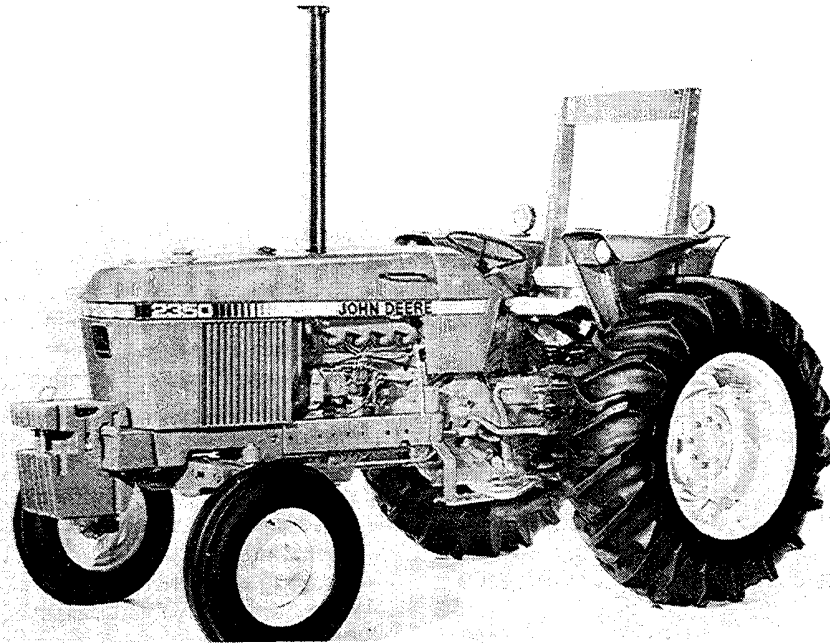
DIRECTION

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

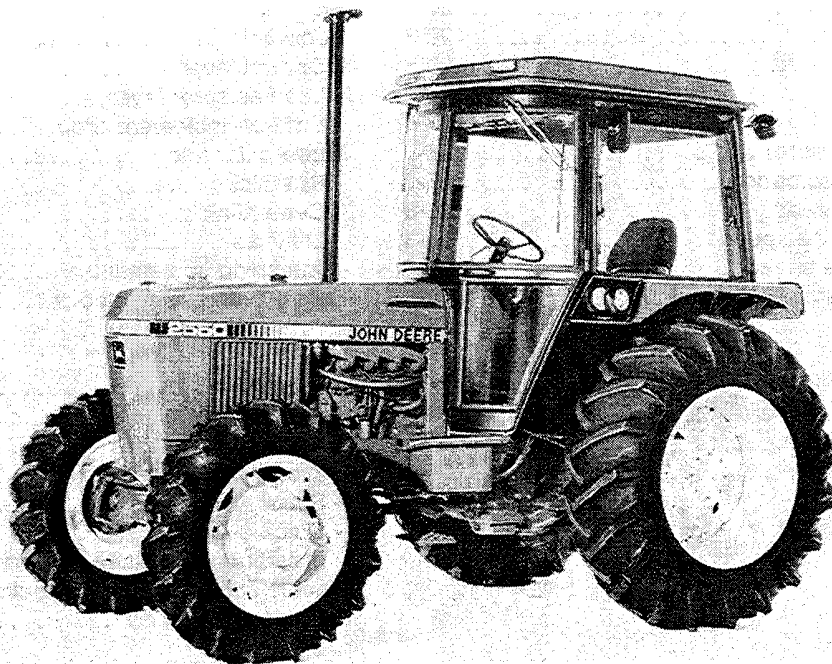
PRODUCT IDENTIFICATION NUMBERS

Record the identification number(s) in the spaces provided following Specifications. Accurately record all of 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 operators manual on the machine for reference, be sure to also record the identification number(s) on a separate sheet of paper in a secure place not on the machine so you will still have a record in case the machine is stolen.

Identification Views



L100 001A



L104 642

L100001A,L104642-2350ALE-081183

<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>

Contents

Index	00-	Operator's Station	30-
– Index	00-5	– Lighting system	30-1
 Safety	05-	– Seats	30-3
– Safety	05-1	– Roll guard	30-5
 Controls and Instruments	10-	– Seat belt	30-5
– Controls	10-1	– Windshield wipers	30-6
– Control lights	10-2	– Fan, air louvers, heater	30-6
– Instruments	10-3	– Air conditioning system	30-6
 Break-in Period	15-	– Steering wheel adjustment	30-7
– After the first 4 and 8 hours	15-1	 Treads, Tires, Ballast	35-
– After the first 50 hours	15-1	Wheel treads	35-1
– Within the first 100 hours	15-2	– Adjusting front wheel tread	35-2
– After the first 100 hours	15-2	– Checking front wheel toe-in	35-3
 Operating the Engine	20-	– Adjusting front wheel toe-in	35-3
– Prestarting check	20-1	– Rear wheel tread adjustment	35-4
– Starting the engine	20-2	Tires	35-10
– Thermostart aid	20-3	– Tire pressures	35-10
– Ether starting aid	20-4	– Servicing tires	35-10
– Starting with a booster battery	20-6	Ballast	35-11
– Towing the tractor to start	20-7	– Measuring rear wheel slip	35-12
– Towing the tractor	20-7	– Rear wheel weights	35-12
– Parking the tractor	20-8	– Installing rear wheel weights	35-13
– Stopping the engine	20-8	– Filling tires with liquid ballast	35-14
 Operating the Tractor	25-	– Front weights	35-15
Reduce fuel consumption	25-1	 Rockshaft, Three-Point Hitch	40-
Ground travel speeds	25-3	Rockshaft	40-1
– At desired engine speed	25-3	– Control lever	40-1
– At rated engine speed	25-4	– Load selector lever	40-3
Operating the tractor	25-6	– Rate-of-implementation drop	40-4
– Shifting gears	25-6	Three-point hitch	40-5
– Hi-Lo shift unit	25-7	– Draft links	40-5
– Creeper transmission	25-7	– Center link	40-7
– Reverser transmission	25-8	– Lift links	40-7
– Differential lock	25-8	– Attaching implements	40-8
– Foot brakes	25-9	– Positioning sway blocks	40-9
		 Accessories	45-
		Selective control valves	45-1
		– Poppet type valves	45-1
		– Breakaway couplers	45-7
		– Spool type valves	45-10
		– Quick couplers	45-10
		– Maximum permissible oil withdrawal	45-11
		Double acting remote hydraulic cylinder	45-12
		Swinging drawbar	45-13

Contents

Power Take-Off	50-	Service-Clutch	85-
– PTO guard	50-1	– Adjusting clutch	85-1
– Operation of PTO (continuous-running)	50-2	– Adding fluid to clutch reservoir	85-2
– Operation of independent PTO	50-2	– Clutch throw-out bearing	85-2
– Attaching PTO driven equipment	50-3		
Front-Wheel Drive	55-	Service-Engine	90-
– Operation	55-1	– Engine oil	90-1
– Front wheel steering angle	55-2	– Engine filter	90-2
– Adjusting front wheel tread	55-3	– Alternator V-belt	90-2
– Tires	55-5	– Engine speeds	90-2
		Service-Cooling System	95-
Fuel, Lubricants, Coolant	60-	– Checking coolant level	95-1
Fuel	60-1	– Replacing coolant	95-2
– Fuel specifications	60-1		
– Fuel storage	60-1	Service-Axles and Wheels	100-
Lubricants	60-2	– Lubricating front axle	100-1
– Engine oil	60-2	– Lubricating drive housings and shafts	100-2
– Fluid for hydraulically operated clutch	60-2	– Lubricating rear axles	100-2
– Transmission/hydraulic oil	60-3	– Checking front axle oil level	100-3
– Transmission oil for MFWD front axle	60-4	– Changing front axle oil	100-4
– Multipurpose grease	60-4		
Engine coolant	60-5	Service-Fuel System	105-
Removing Access Covers	65-	– Checking fuel filter	105-1
– Hood	65-1	– Replacing fuel filter	105-2
– Grille screens	65-1	– Draining water trap	105-2
– Battery box covers	65-1	– Bleeding fuel system	105-3
Lubrication and Periodic Service	70-	Service-Transmission/Hydraulic	110-
– Service intervals	70-1	– Checking oil level	110-1
– Time table	70-2	– Replacing filter element	110-1
		– Changing oil	110-2
Service-Air Intake System	75-	– Replacing steering filter	110-2
– Primary air filter	75-1		
– Secondary air filter	75-2	Service-Miscellaneous	115-
– Dust unloading valve	75-3	– Operator's seat	115-1
– Air intake hoses	75-3	– 3-Point hitch	115-1
		– Compressor V-belt	115-1
Service-Brakes	80-	– SGB-air filter	115-2
– Bleeding brakes	80-1		
– Adjusting hand brake	80-1		

Contents

Service-Electrical System	120-	Trouble Shooting	135-
– Batteries	120-1	– Hydraulic system	135-1
– Checking specific gravity	120-1	– Engine	135-2
– Level of electrolyte	120-2	– Electrical system	135-3
– Removing batteries	120-2		
– Starting motor	120-4	Specifications	140-
– Neutral start system	120-4	– Engine	140-1
– Alternator	120-5	– Weights	140-2
– Lamps	120-6	– Electrical system	140-3
– Circuit breaker	120-8	– Capacities	140-3
Service-Heater and Air Conditioning System .	125-	Serial Numbers	145-
– Air conditioning system	125-1	– Serial numbers	145-1
– Heater	125-2		
Tractor Storage	130-	Lubrication and Maintenance Records	150-
– Storage	130-1	– Lubrication and maintenance records	150-1
– Removing tractor from storage	130-2		
Crime prevention tips	130-3	Index	155-
		– Index	155-1

Safety

READ SAFETY SIGNS

Carefully read and follow all CAUTION, WARNING, and DANGER safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

The sign shown here is located at the left hand fender (tractor without SOUND-GARD body). On tractors with SOUND-GARD body a similar sign is affixed to front right hand corner post.



CAUTION

1. Before operating this tractor, read the Operator's Manual for complete instructions and safety information.
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. Reduce speed when turning or applying individual brakes or operating around hazards, on rough ground or steep slopes.
8. Couple brake pedals together for road travel.
9. Use flashing warning lights on highway unless prohibited by law.
10. Stop engine, lower implement to ground and shift to "PARK" or set brakes securely before dismounting. Wait for all movement to stop before servicing machinery.
11. Remove key if leaving tractor unattended.

L110 241

L110241-2950ALE-150585

SAFETY SIGN "TRACTOR RUNAWAY"

This sign is located near the starting motor.



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 and move 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.

L110 242

L110242-2950ALE-150585

SAFETY SIGN "ROLL-GARD"

This sign is located on the left hand post.



CAUTION

Use of seat belt with this Roll-Gard is recommended for almost all operating conditions.

L110243

L110243-2950ALE-150585

SAFETY SIGN "PTO"

This sign is located on the PTO master shield.



WARNING

TO AVOID BODILY INJURY:

1. Keep PTO master shield and all power drive system safety shields in place. Also install PTO shaft guard when the system is not in use.
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	

L110244

L110244-2950ALE-000585

SAFETY SIGN "BATTERY"

This sign is located on top of batteries.



DANGER!

Explosive Gases

POISON!

Causes Severe Burns

Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: **External**—Flush with water. **Internal**—Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call a physician immediately. **Eyes**—Flush with water for 15 minutes and get prompt medical attention. Cigarettes, flames or sparks could cause battery to explode. Always shield eyes and face from battery. Do not charge or use booster cables or adjust post connections without proper instruction and training. Ventilate when charging or using in enclosed space. **Keep vent caps tight and level. Keep out of reach of children.**

L110 245

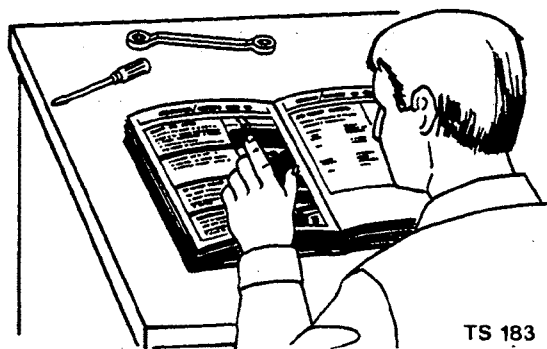
L110245-2950ALE-150585

LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



TS 183

AB6-TS183 053-READ2 080785

LEARN SAFETY SIGNAL WORDS

Signal words CAUTION, WARNING, and DANGER are used with the safety-alert symbol to draw attention to potentially unsafe areas. Learn these signal words.

CAUTION is used with all safety messages in this manual and is used on the machine to identify some of the less serious hazards.

WARNING is used on the machine to let the operator know that a greater risk is involved for a specific potential hazard.

DANGER is used on the machine to mean that one of the most serious potential hazards is present. Unsafe operating techniques or bad work habits in this area could lead to personal injury or death.

Red and white are colors used with the word danger. Black and yellow are found on signs carrying the words caution, be careful, or warning.



T 81389

AB6-T81389 053-SIGNAL 220785

PREVENT TRACTOR RUNAWAY

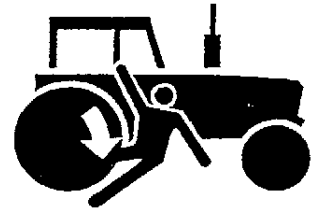
Avoid possible injury or death from a machine runaway.

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

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



L110 247



L110247-2950ALE-150585

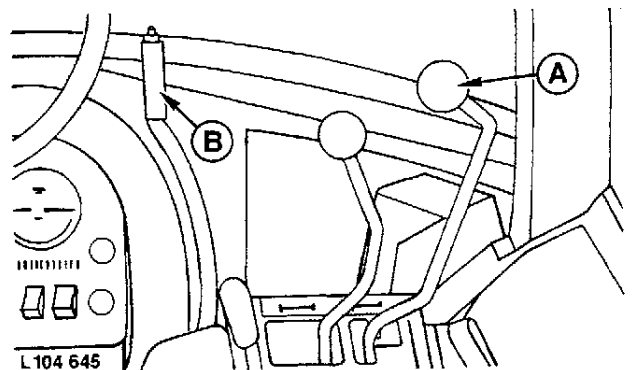
STAY CLEAR OF MOVING TRACTOR

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.

Before dismounting, place the transmission in neutral (A), apply hand brake (B) and lower implements to the ground. If tractor is to be left unattended, stop the engine and remove the key.

Never attempt to start or operate tractor except from operator's station.



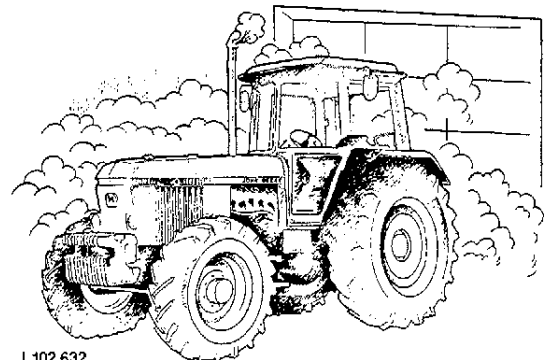
L104 645

L104845-2350ALE-091183

OPERATING THE ENGINE

Before starting the engine make sure there is plenty of ventilation. Never operate the engine in a closed building. Danger of asphyxiation!

When starting the engine, rockshaft control lever must be in "lower" position.



L102 632

L102632-1640ALE-271282

OPERATE TRACTOR SAFELY

Slow down for hillsides, rough ground, and sharp turns.

Couple the brake pedals together before driving at transport speeds.

When implements or attachments are used with the tractor, always follow safety precautions listed in implement operator's manual or operating instructions. When raising a heavy object with a loader, be sure the object is secure from falling. It could fall on and seriously injure a bystander or the operator.

Keep all shields in place.

Always apply hand brake before dismounting. Leaving transmission in gear with engine stopped will NOT prevent tractor from moving.

OPEOM-2950ALE-150585

USE CAUTION ON HILLSIDES

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

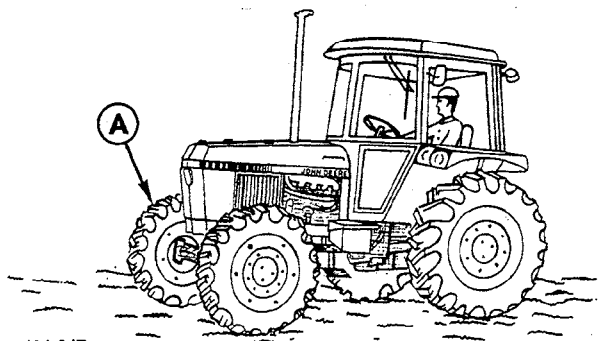
Front-wheel drive (A) greatly increases traction. When this option is used, extra caution is needed on slopes. Compared to 2-wheel drive, a front-wheel drive tractor maintains traction on steeper slopes, increasing the possibility of a tip over.

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 1.5 m (60 in.) tread at high speed.

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



L 104 647



L 104 648

L104647, L104648-2350ALE-180985

BALLAST TRACTOR CORRECTLY

Steering and braking performance of the tractor can be considerably affected by attaching implements. To maintain the necessary tractor ground contact, ballast tractor as necessary.

Braking performance: On tractors equipped with a front loader, ballast rear end of tractor (rear wheel weights, filling rear tires with liquid ballast or attaching a rear mounted implement).

When driving the tractor with front loader installed and without rear implement, never drive tractor faster than 20 km/h (12.5 mph).

Steering performance: On tractors equipped with heavy rear-mounted implement, install sufficient front ballast (front weights).

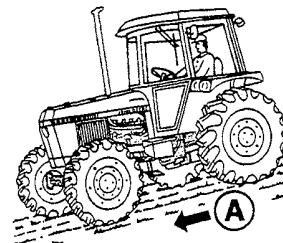
BALOM-2950ALE-150585

SHIFT TO LOW GEAR ON HILLS

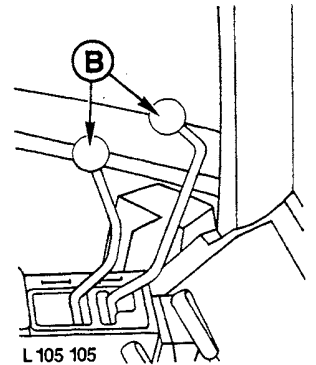
Before descending a steep hill (A), shift to a low gear (B) to control the tractor with little or no braking. Never coast downhill.

When transporting downhill on icy or graveled grades, be alert for skids which could result in loss of steering control. To decrease chance of skids, reduce speed and be sure tractor is properly ballasted. Engage front-wheel drive 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.



L 104 649

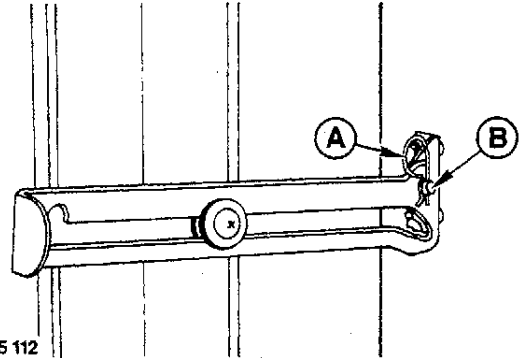


L 105 105

L104649,L105105-2350ALE-180985

EMERGENCY EXIT

For an emergency exit, SOUND-GARD® body windows can be opened. Remove the Quick-Lock pins (A) and headed pins (B) from window latches, and push window wide open.



L 105 112

L105112-2350ALE-091183

KEEP RIDERS OFF MACHINE

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

Riders on a 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.

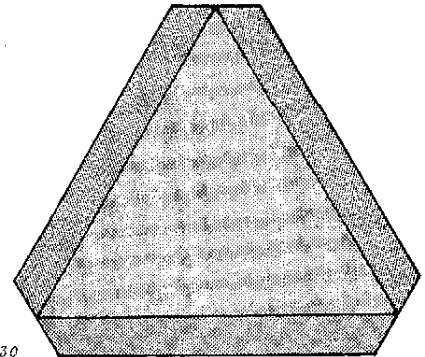


L110 229

L110229-2850ALE-150585

SAFETY ON PUBLIC ROADS

Always comply with local traffic regulations when driving on public roads.



H28930

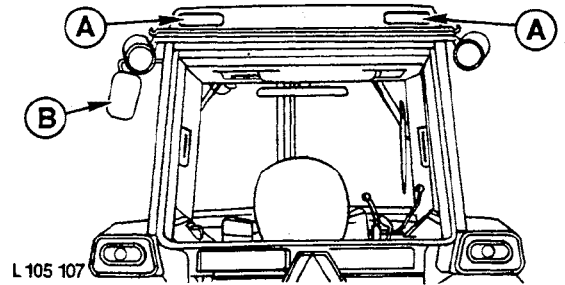
H28930-2950ALE-150585

MAKE TRACTOR VISIBLE ON HIGHWAY

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

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

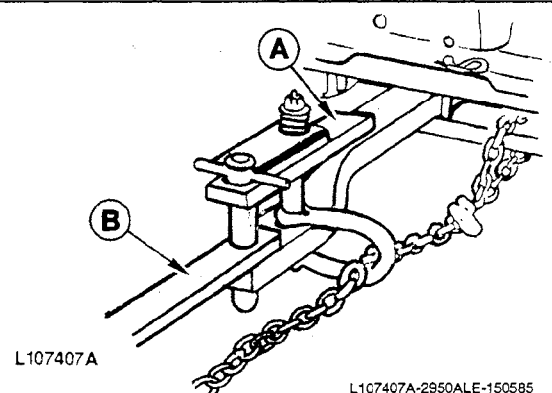
Before operating tractor on highway, be sure flashing warning lamps (A) work properly. Adjust rear view mirror (B), and clean windows.



L105107-2950ALE-150585

USE A SAFETY CHAIN

A safety chain will help control drawn equipment (B) should it accidentally separate from the drawbar (A) while transporting. Using the appropriate adapter parts, attach chain to 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.



L107407A-2950ALE-150585

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.



TS 185

AB6-TS185 053-FIRE1 240785

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguishers handy.

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



TS 186

AB6-TS186 053-FIRE2 080785

HANDLE STARTING FLUID SAFELY

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. 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.



TS 6089A

AB6-T6089A U 053-FIRE3 080785

TRANSPORT TRACTOR SAFELY

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

If towing a tractor, never tow faster than 10 mph (15 km/h). Have an operator steer and brake tractor.

U01-HAUL IT 090585

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.

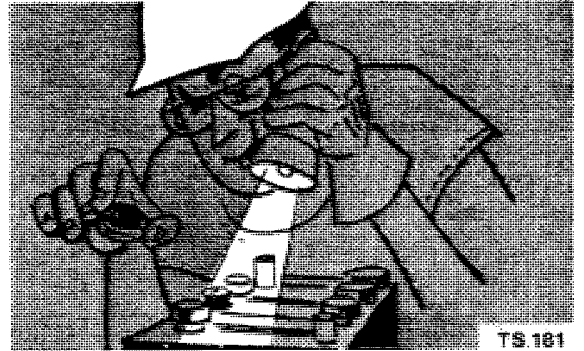
Safety-295CALE-020884

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-TS181 053-EXPLO 180485

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:

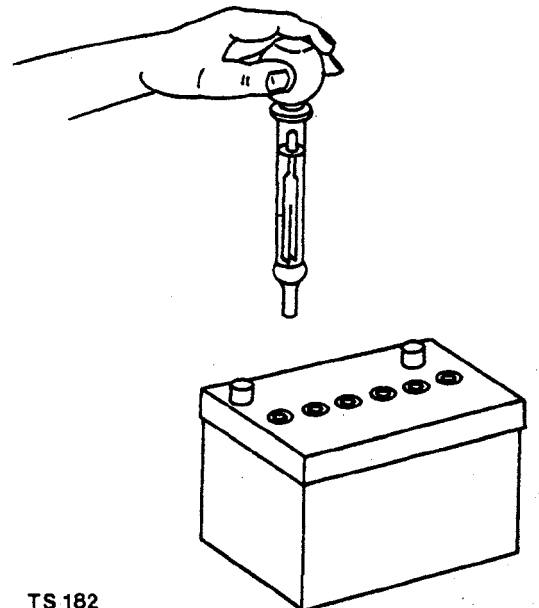
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.

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.



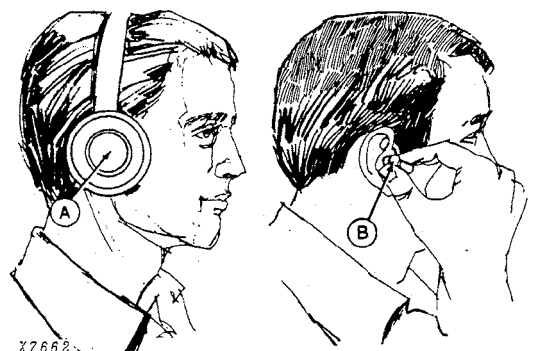
TS 182

AB6-TS182 053-ACID 180485

NOISE PROTECTION

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

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

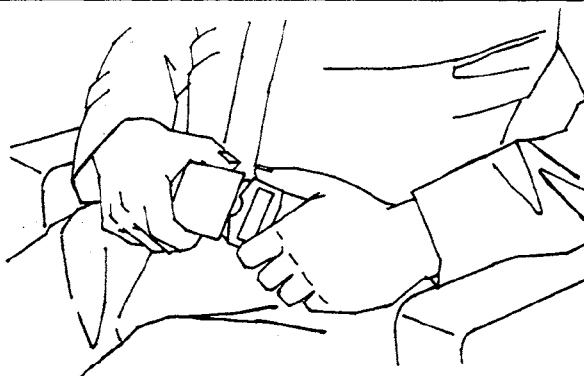


X7662-1065AZE-262081

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.

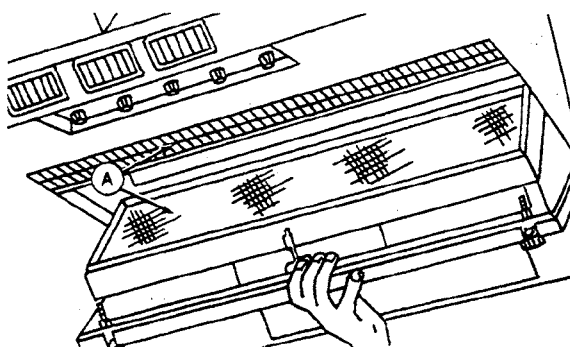
Do not use a seat belt if operating without a ROPS.



RW4419-2950ALE-150585

HANDLE CHEMICALS PROPERLY

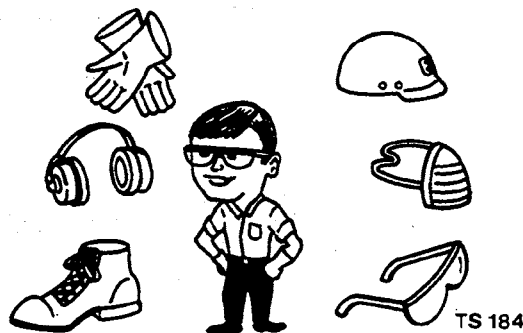
SOUND-GARD body air filters (A) are not designed to filter out harmful chemicals. Follow instructions given in implement operator's manual and those given by the chemical manufacturer when using agricultural chemicals.



RW5704L-2350ALE-091183

WEAR PROTECTIVE CLOTHING

Wear fairly tight clothing..... and safety equipment.



AB6-TS184 053-WEAR2 080785



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

STAY CLEAR OF PTO

Stop the engine and be sure the PTO drive line (A) has stopped before:

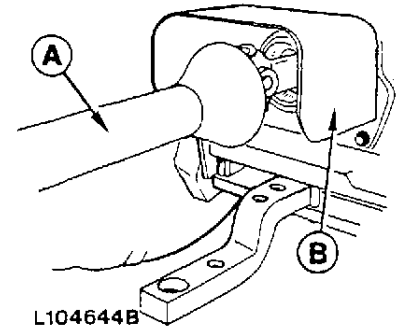
- Connecting or disconnect implement drive line
- Making adjustments on the implement
- Cleaning out PTO driven equipment

PTO master shield (B) and drive lines should be in place at all times except for special applications as directed in the implement operator's manual.

The PTO shaft guard should be in place when the PTO is not being used.

Operate PTO at recommended speed.

Avoid loose-fitting or dangling clothing.



L104644B-2950ALE-150585

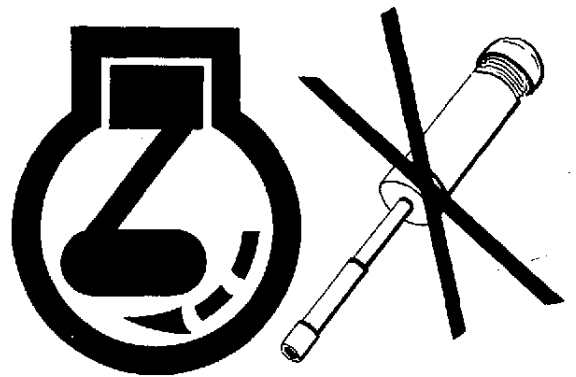
SERVICE TRACTOR SAFELY

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

Disconnect battery ground cable before working on electrical system or working in any area where you might accidentally contact electrical components.

Reinstall all shields and guards removed for servicing and make sure they are in good condition.

Have adjustments carried out by trained personnel only.



Z 20 919

Z20919-2950ALE-150585

<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>