

**1270D Harvester
Serial Number
WH1270D000003...249
WJ1270D000250-**

**OPERATOR'S MANUAL
1270D Harvester**

OMF063723 Issue 20NOV03 (ENGLISH)

**CALIFORNIA
Proposition 65 Warning**

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

If this product contains a gasoline engine:

** WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

**Worldwide Construction
And Forestry Division**
LITHO IN FINLAND

Introduction

Introduction

The information contained in this manual is comprised of instructions which will assist the operator to operate the machine in a safe and efficient manner. Make sure this manual is always close at hand and available to all who work on the machine. Should this manual be lost or should it deteriorate to an unintelligible state, contact Timberjack or your nearest Timberjack dealer for a replacement manual.

If you sell the machine, be sure to give this manual to the new owners.

Continuing product improvement made by Timberjack may result in changes to the machine which are not covered in this manual. Should you need up-to-date information about your machine or should you have questions in regards to this manual, please contact Timberjack or your Timberjack dealer.



CAUTION: Only persons whose training has been approved by Timberjack are permitted to operate Timberjack machinery.

Improper operation and maintenance of this machine can be hazardous and could result in serious injury or death.

Therefore, it is of paramount importance that all the instructions given in this manual and during training be followed when the machine is operated or serviced.

This instruction manual describes the operation of your **Timberjack 1270D** single grip harvester.

Only operators and service personnel who have completed and passed Timberjack's course for the 1270D may use the machine.

Furthermore, the operator must have studied and understood the entire manual.

The manual provides you with information about the machine's design and function, which is necessary in order to use and look after the machine in the proper manner. It also serves to offer guidance during maintenance and certain adjustment work.

Please contact your nearest authorized service workshop for more complicated maintenance and repair work. Our service personnel have the training and special tools that are required for such tasks.

AK12300,0000030 -19-10OCT01-1/1

Timberjack 1270D Harvester

Timberjack 1270D harvester is intended for felling, delimbing and crosscutting trees. The machine must not be used for any other purposes.

We designed the Timberjack 1270D harvester to operate under difficult off-road circumstances. Still it is important that you always adapt your driving speed to the surroundings. Use chains if necessary.

Regular servicing and proper operation is of vital significance for long service life of the machine. The instructions contained in this manual should therefore be adhered to.

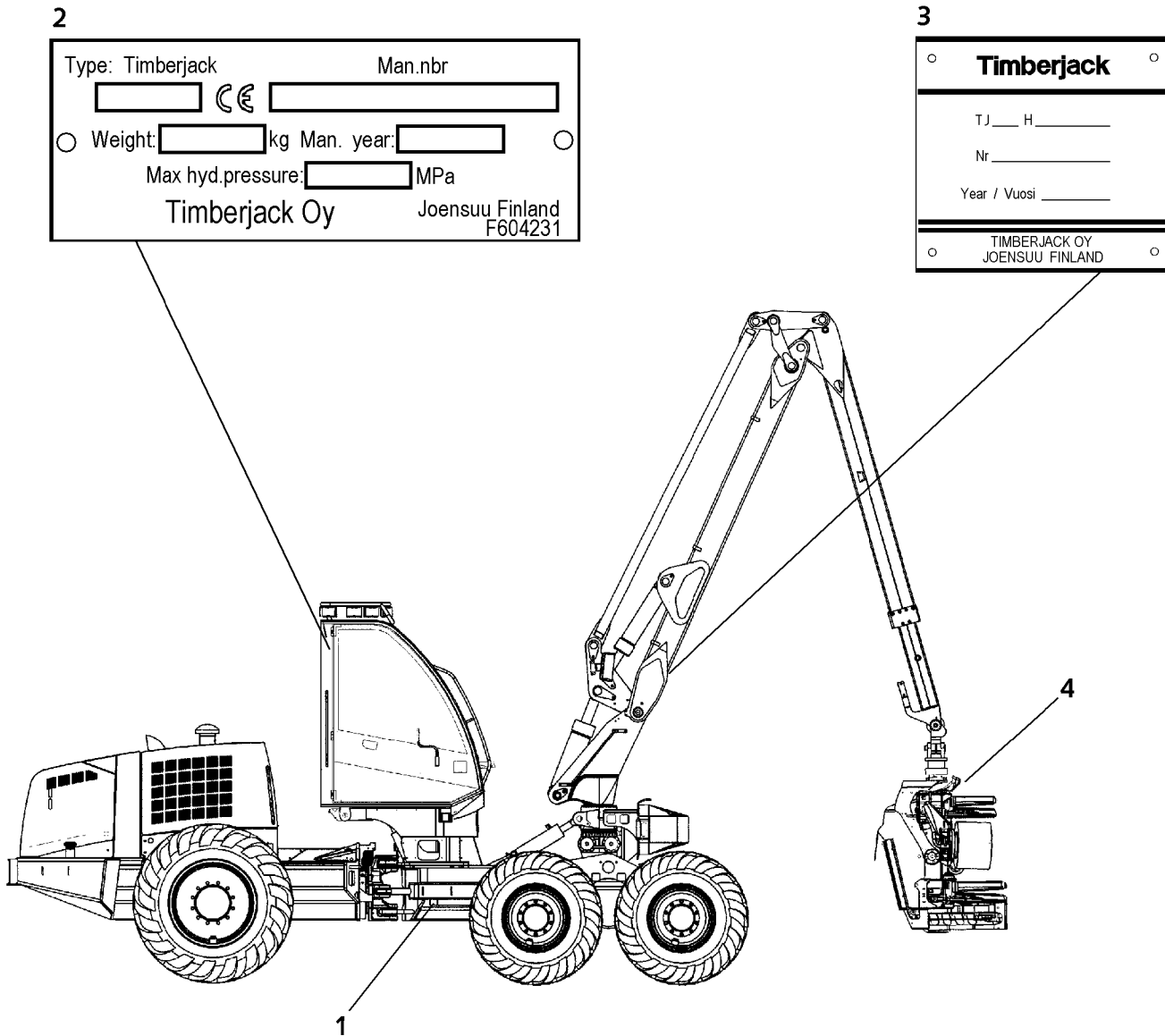
Experience shows that a thorough check of the machine at regular intervals is a guarantee for favourable cost efficiency.

Do not pollute the environment. It is imperative that you do not allow oil to leak into the ground or water because it only takes one liter of mineral oil to contaminate one million liters of water. Should you see a leaky joint, fix it immediately.

Remember fire prevention. Keep the machine clean at all times for this reduces the risk of overheating and chance of a fire starting. Have the fire extinguishers checked regularly.

AK12300,000002A -19-09OCT01-1/1

Location of Rating Plates and Serial Numbers



1. Punched serial number is located on right side of the frame.
2. Rating plate inside the cabin on right rear cab pillar.

3. Serial number for the boom.
4. Serial number for the harvester head.

Warranty

Timberjack provides a warranty for the machine in accordance with the standard conditions of the Timberjack Group.

The following prerequisites apply in relation to our responsibility for machines that are made by us:

- The machine is exclusively operated and maintained by experienced personnel who have been trained by Timberjack or by a dealer authorized by Timberjack.
- The machine must be operated and maintained in accordance with the instructions provided in this manual.
- Classifications for fuel, lubricants and fluids stated in the instructions must be adhered to.
- Genuine Timberjack spare parts must be used.

AK12300,000002C –19–09OCT01–1/1

Warranty Service

The machine is tested and test-run prior to delivery and it can be put into use immediately. To ensure reliable operation of the machine it is essential that thorough servicing of the machine is made after putting it into operation.

A service workshop authorized by the Timberjack Group is to carry out service on the machine after about 250 hours of operation to keep the guarantee valid.

Naturally the validity of warranty requires that during the warranty period all the maintenance procedures have to be performed according to the maintenance intervals detailed in this manual.

AK12300,000002D –19–09OCT01–1/1

Contents

	Page		Page
Safety — Safety Features			
Timberjack 1270D Harvester Safety			
Features	1-1-1		
Safety — General Precautions			
General	1-2-1		
Recognize Safety Information	1-2-1		
Understand Signal Words	1-2-1		
Prepare for Emergencies	1-2-2		
Wear Protective Clothing	1-2-2		
Handle Fluids Safely — Avoid Fires	1-2-3		
Handle Chemical Products Safely	1-2-3		
Replace Safety Signs	1-2-3		
Maintain Safety Cabin	1-2-4		
Install Radio Transmitters Properly	1-2-4		
Safety — Operating Precautions			
Inspect Machine	1-3-1		
Attach Do not Operate Tag	1-3-1		
Prevent Machine Runaway	1-3-2		
Use Handholds and Steps	1-3-3		
Prepare Secondary Exits before Starting	1-3-4		
Handle Starting Fluids Safely	1-3-4		
Pay Attention to Bystanders	1-3-5		
Keep Riders of the Machine	1-3-5		
Use Seat Belt	1-3-6		
Avoid Risks under Difficult Conditions	1-3-6		
Stop Working if Machine Gives an Alarm	1-3-7		
Keep Danger Zone Clear	1-3-7		
Avoid Crush Points	1-3-8		
Avoid Power Cables	1-3-9		
Driving/Transporting on Public Roads	1-3-10		
Ensure Safety before Driving on Frozen			
Waters	1-3-11		
Prevent Fires	1-3-12		
What to Do if the Machine Fires?	1-3-13		
Safety — Maintenance Precautions			
General	1-4-1		
Before Servicing	1-4-2		
Use Proper Clothing	1-4-2		
Use Proper Tools	1-4-3		
Support Machine Properly	1-4-3		
		Shut Down Engine, Disconnect Battery	
		Cable	1-4-4
		Service Cooling System Safely	1-4-4
		Prevent Battery Explosions	1-4-4
		Prevent Acid Burns	1-4-5
		Start Only from Operator's Seat	1-4-5
		Beware of Exhaust Fumes	1-4-6
		Avoid High Pressure Fluids	1-4-6
		Avoid Heating near Pressurized Fluid Lines	1-4-7
		Make Welding Repairs Safely	1-4-7
		Service Tires Safely	1-4-8
		Refueling and Servicing Fuel System	1-4-8
		Dispose of Waste Properly	1-4-9
		Cabin and Controls	
		Cab Component Locator	2-1-1
		Main Switch	2-1-2
		Control Lights	2-1-2
		Dashboard	2-1-4
		Boom Controls	2-1-7
		Control Keypads	2-1-8
		Air Conditioner, Operation Instructions	2-1-9
		Pedals	2-1-10
		Adjusting the Operator's Seat	2-1-11
		Operating Instructions	
		General	3-1-1
		Safety Switches and Emergency Stop	3-1-1
		Boom	3-1-2
		Brakes	3-1-2
		Steering	3-1-3
		High/Low Gear and Front Wheel Drive	3-1-4
		Differential Locks	3-1-5
		Frame Brake	3-1-5
		Before Starting the Engine for the First	
		Time in a Working Day	3-1-6
		Starting the Engine	3-1-7
		Cold Weather Starting	3-1-9
		After Starting	3-1-10
		Turning off the Engine	3-1-11

Continued on next page

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.

COPYRIGHT © 2002
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION® Manual

Page

Page

Off-Road Driving	3-1-12
On-Road Driving	3-1-13

Transporting and Towing

Transporting the Machine	3-2-1
Towing the Machine	3-2-2
Releasing the Parking Brake	3-2-3
Disengaging the Power Transmission System	3-2-3
Releasing the Work Brake	3-2-4
Releasing the Steering	3-2-4
Stowing a Disabled Boom	3-2-5

Maintenance — General

Maintenance	4-1-1
Servicing Safety Precautions	4-1-2
Assembly Instructions	4-1-3
Tightening Torque for Bolted Joints	4-1-5
Welding Instructions	4-1-7
Instructions for Cleaning of Lexan/Marguard Windows	4-1-9
Wheels	4-1-10
Changing Wheels	4-1-10
Anti-Slip Fitting	4-1-11
Bogie Tracks, Fitting	4-1-12

Maintenance — Lubricants and Fluids

Recommended Lubricants and Fluids	4-2-1
Capacities	4-2-2
Diesel Fuel	4-2-3
Engine Oil	4-2-4
Coolant	4-2-5
Grease	4-2-5
Hydraulic Oil	4-2-6
Brake Fluid	4-2-6
Gear Oil	4-2-6

Maintenance Intervals

Checklist — Base Machine	4-3-1
Required Parts	4-3-1

Maintenance — Every 10 Hours or Daily

Check the Hydraulic Oil Level	4-4-1
Check the Engine Oil Level	4-4-1
Check the Fuel Filter Screen	4-4-2
Check the Coolant Level	4-4-2
Check the Air Filter Indicator	4-4-3
Check the Radiator Grille Cleaness	4-4-4
Check the Tires Visually for Air Pressure and Overall Shape	4-4-4
Other Procedures	4-4-5

At the End of the Day Make the Following Maintenance and Check-Ups	4-4-5
Fill Up the Fuel Tank	4-4-6

Maintenance — Every 50 Hours or Weekly

Check the Driving Brake Oil Level and Window Washer Fluid Level	4-5-1
Grease the Center Hinge Bearings and Steering Cylinder Bearings	4-5-1
Other Procedures	4-5-1

Maintenance — Every 250 Hours

Clean the Machine	4-6-1
Inspect Coolant Pump Visually	4-6-1
Check the Drive Belts Condition	4-6-1
Check Oil Levels in the High/Low Gear, Differentials, Bogie Casings and Hub Gears	4-6-2
Grease Bogie Bearings	4-6-3
Other Procedures	4-6-4

Maintenance — Every 500 Hours

Change Engine Oil And Oil Filter	4-7-1
Clean Crank Case Vent Tube	4-7-2
Check Air Intake System	4-7-2
Clean Fuel Strainer	4-7-3
Replace Main Fuel Filter	4-7-4
Check Belt Tensioner and Belt Wear	4-7-5
Check Crankshaft Vibration Damper	4-7-6
Check Cooling System and Coolant Solution	4-7-7
Remove Sediment and Water from the Fuel Tank	4-7-8
Check the Batteries for Charge and Electrolyte Level	4-7-9
Check Wear on Frame Brake Linings	4-7-9
Grease the Driveshafts	4-7-10
Other Procedures	4-7-10

Maintenance — Every 1000 Hours

Change Hydraulic Oil and Return Filters (2 pcs)	4-8-1
Change the Hydraulic Tank Breather	4-8-2
Change the Filter of the Driving Pump	4-8-2
Check the Exhaust Manifold	4-8-3
Grease Stairs Linkage	4-8-3
Other Procedures	4-8-3

Maintenance — Every 2000 Hours

Check Valve Clearance	4-9-1
Changing the Coolant	4-9-3

Continued on next page

Page	Page
Change Oil in the High/Low Gear, Differentials, Bogie Casings and Hub Gears 4-9-5 Other Procedures 4-9-9	Pilot Pressure, Working Hydraulics. 5-4-6 Boom Valve, LS Pressure Limits 5-4-7
Maintenance — Periodic Maintenance Maintenance after every Six Months. 4-10-1 Annual Maintenance. 4-10-1	Brake System — Checking and Adjusting Checking the Brakes 5-5-1 Mechanical Adjustment of Brakes. 5-5-2 Checking the Service Brake 5-5-3 Checking the Work Brake. 5-5-3 Checking the Load and Release Range 5-5-4 Checking the Relief Valve of the Brake Charging Pressure 5-5-5
Maintenance — As Required When Necessary, Service and Adjust the Following. 4-11-1 Adjusting the Rotator Link Brakes. 4-11-1 Cleaning the Fuel Tank Filler Filter. 4-11-2 Bleeding the Fuel System. 4-11-2	Hydraulic System — Hydraulic Scheme Hydraulic Scheme 5-6-1
Maintenance — Boom Maintenance Intervals. 4-12-1 Every 10 Hours or Daily 4-12-2 Every 50 Hours or Weekly 4-12-3 Every 250 Hours 4-12-5 Every 1000 Hours. 4-12-6 Every 2000 Hours. 4-12-6	Electrical System Batteries. 6-1-1 Using Booster Batteries 6-1-2 Main Switch and Fuses 6-1-3 Cabin Fuses. 6-1-4 Fuse Box F1. 6-1-5 Fuse Box F2. 6-1-7
Maintenance — Machine Storage Preparing Machine for Storage. 4-13-1 After Storage 4-13-2	Electrical System — Sensors Engine 6-2-1 Hydraulic Tank 6-2-2 Transmission 6-2-2 Brake System. 6-2-3 Fuel System. 6-2-3 Position Sensors 6-2-4
Hydraulic System — General Working Hydraulic System 5-1-1 Hydrostatic System. 5-1-1 Hydraulic Tank 5-1-2 Vacuum Pump 5-1-4 Taking an Oil Sample from Hydraulic System. . 5-1-5	Electrical System — Electrical Scheme Electrical Scheme. 6-3-1
Hydraulic System — Bleeding Bleeding Air from the Hydraulic System 5-2-1 Bleeding Air from the Hydrostatic System. 5-2-2 Bleeding Air From the Working Hydraulic System 5-2-3 Bleeding the Brakes 5-2-4	Transmission Transmission Operation 7-1-1 Hydrostatic System. 7-1-2 Control of Transmission 7-1-3 Brakes 7-1-4
Hydrostatic System — Checking and Adjusting Supply Pressure on the Drive Pump. 5-3-1 Drive Pressure 5-3-2 Drive Motor. 5-3-4	Boom General Description of the Boom 8-1-1 Operating Safety Precautions. 8-1-1 General Operating Instructions. 8-1-2 Technical Data 8-1-3 Tj 210 H 90 8-1-3 Tj 210 H 97 8-1-4 Tj 210 H 115 8-1-4 Rotator AV12S. 8-1-4 Rotator AV14S. 8-1-4
Working Hydraulics — Checking and Adjusting General 5-4-1 Pressure Difference Dp 5-4-1 Main Pressure Relief Valve 5-4-2 Maximum Pressure Settings of the Working Hydraulic Pump. 5-4-4	

Continued on next page

Page

Equipment — Air Conditioner

Air Conditioner	9-1-1
Danger and Precautions.	9-1-2
Configuration and Location of the Air Conditioner	9-1-3
Maintenance of the Air Conditioner.	9-1-4
Troubleshooting the Air Conditioner	9-1-7

Equipment — Engine and Cabin Preheater *)

Configuration	9-2-1
Operation	9-2-2
Maintenance of the Engine Preheater.	9-2-3
Timer for Engine and Cabin Preheater	9-2-4
Service Codes of the Engine Preheater	9-2-7

Equipment — Fire Extinguisher System *)

Configuration and Use of the System	9-3-1
Control Unit	9-3-2
Maintenance.	9-3-3
Hand-Held Fire Extinguishers.	9-3-4

Equipment — Stump Treatment System *)

Configuration and Operation.	9-4-1
--------------------------------------	-------

Equipment — Cabin Levelling *)

Cabin Levelling Modes	9-5-1
Cabin Levelling Controls.	9-5-2
Automatic Boom Following Modes	9-5-6
Sensors of Cabin Levelling.	9-5-7
Cabin Levelling Hydraulics, Checking and Adjusting.	9-5-8
Maintenance of Cabin Levelling	9-5-9

Equipment — Seat Levelling *)

Control Unit and Functions.	9-6-1
Programming	9-6-1

Equipment — Boom Levelling *)

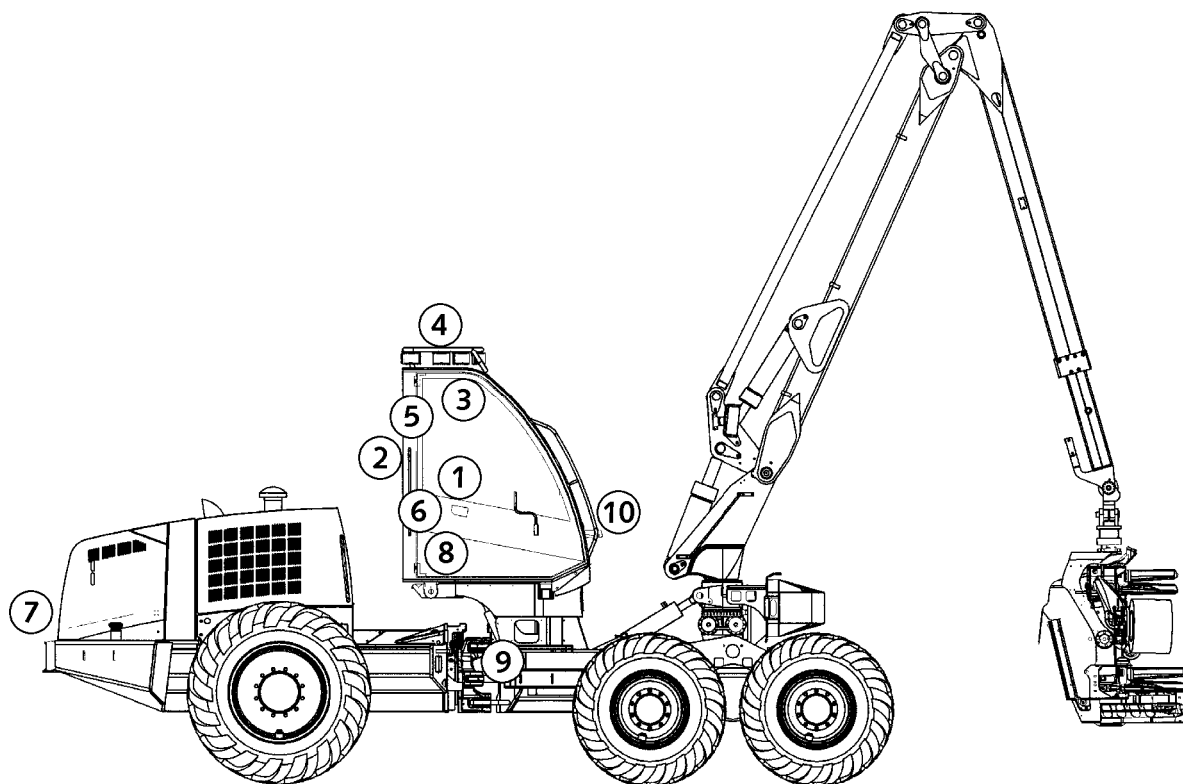
Operation of Boom Levelling	9-7-1
Boom Levelling Controls.	9-7-2

Specifications

Dimensions and Weights	10-1-1
Alternative Wheel Equipment	10-1-1
Engine	10-1-2
Transmission	10-1-2
Axles	10-1-2
Brakes	10-1-3
Steering	10-1-3
Electrical System	10-1-3
Hydraulic System	10-1-3
Boom and Harvester Head	10-1-4
Cabin	10-1-4

Safety — Safety Features

Timberjack 1270D Harvester Safety Features



T154622 -UN-28MAY02

Please remember the Operator is the key to preventing accidents.

1. **Emergency stop.** Stops the machine and engages the parking brake.
2. **Secondary exits.** The rear window and the right side door can be used as secondary exits from the cab.
3. **Central warning light and alarms (+buzzer)** Alarm when malfunctions occur.
4. **Safety cabin** Integrated rollover and operator protective structures fully enclose and protect the operator.
5. **Safety signs.** Warn and give safety information for the operator.
6. **Door safety switches.** No function can be engaged before door safety switches are reset.
7. **Back-up alarm (opt).** Alerts bystanders when machine is reversing.
8. **Hand-held fire extinguishers and fire extinguisher system (opt.)**
9. **Steering interlock.** The center hinge of the machine must be locked by fitting the steering interlock before starting any service work.
10. **Handrails, anti-slips on the steps, stairs.** Help to climb into the machine.

AK12300,0000031 -19-10OCT01-1/1

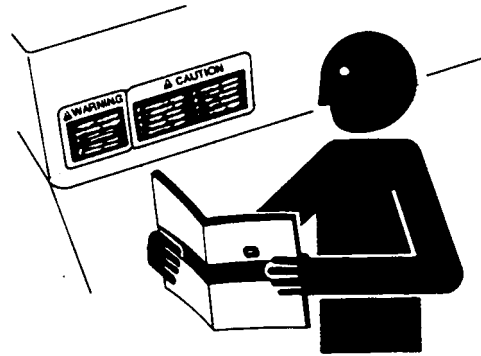
Safety — General Precautions

General

Should there be any information or instructions in this manual that are not in compliance with local laws and regulations in force in the country or region where this equipment is operated, the local laws and regulations must take precedence.

This machine should not be operated or maintained by personnel other than those who have been thoroughly trained.

As the maintainer ensure that you become familiar with all occupational safety regulations pertaining to forest machinery as well as all safety instructions pertaining to this equipment. Observe the instructions provided in this manual and on all hazard and information decals on the machine.



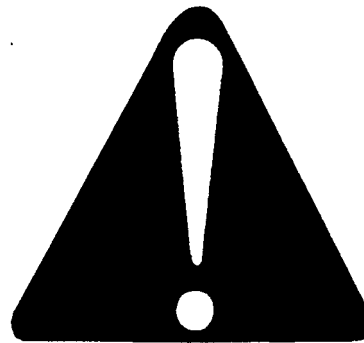
TS201 -JUN-23AUG88

AK12300,000003C -19-28FEB02-1/1

Recognize Safety Information

This is a 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.



T81389 -JUN-07DEC88

AK12300,000003D -19-28FEB02-1/1

Understand Signal Words

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

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



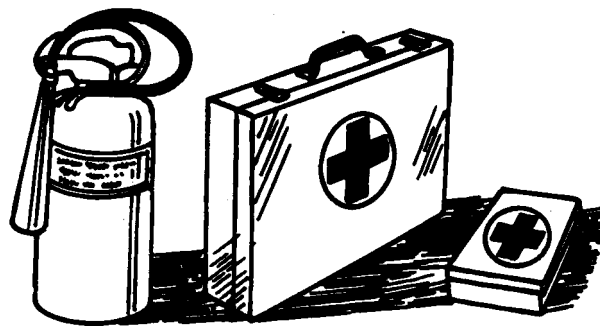
TS187 -19-30SEP88

AK12300,000003E -19-28FEB02-1/1

Prepare for Emergencies

Keep a first aid kit in an easily accessible location on the vehicle at all times. Check the first aid kit regularly and make sure you immediately replace all items you have used.

Learn to use first aid equipment and fire extinguishers. Keep emergency numbers always available or save those to your portable phone.



TS291 -UN-23AUG88

AK12300,000003F -19-28FEB02-1/1

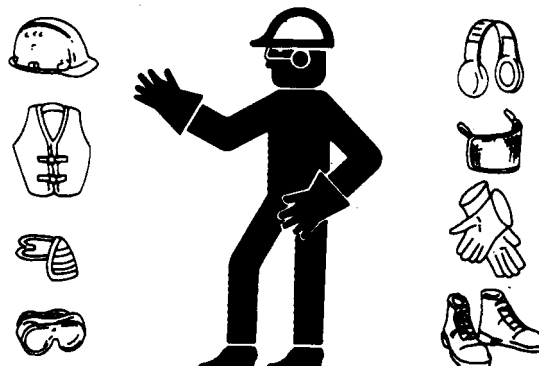
Wear Protective Clothing

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.

Safety face shield, glasses, or goggles should always be used as protection from pressurized fluid spray, flying debris, and other airborne matter when working with tools, power tools, welding equipment, and corrosive or dangerous chemicals.

Use a rubber apron and rubber gloves when working with corrosives and wear heavy work gloves and safety shoes when handling large heavy and sharp objects.



TS206 -UN-23AUG88

AK12300,0000040 -19-28FEB02-1/1

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.

AK12300,0000041 -19-28FEB02-1/1

Handle Chemical Products Safely

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with your machine include such items as lubricants, coolants, paints, and adhesives.

Carefully consult the manufacturer's instructions before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

If needed, see your authorized dealer to find out safety risks of the chemical products used with your machine.



TS1132 -UN-26NOV90

AK12300,0000042 -19-28FEB02-1/1

Replace Safety Signs

Replace missing or damaged safety signs. See Spare Part Book for correct safety sign placement.



TS201 -UN-23AUG88

AK12300,0000043 -19-28FEB02-1/1

Maintain Safety Cabin

Cabin is safety tested according to international ROPS, FOPS and OPS standards.

Do not operate the machine with the door open or any of the safety covers or protective devices removed.

It is important to keep the operator protective structure in place (doors, screens, windows, windshield, etc.) to minimize hazards from whipping or intruding objects.

The protection offered by ROPS, FOPS and OPS will be impaired if cabin

- is subjected to structural damage
- is involved in an overturn incident
- is in any way altered by welding, bending, drilling, or cutting

To maintain ROPS, FOPS and OPS protection, replace damaged cabin parts immediately. A damaged structure should be replaced, not reused.

Do not attach any parts on the cabin by welding nor drill any holes on it because it is a safety cabin. It is forbidden to modify the window fastening.

AK12300,000010A -19-05NOV01-1/1

Install Radio Transmitters Properly



CAUTION: Never use a headset when there is thunder or lightening. Observe the danger of an outer antenna so that it does not come into contact with power lines.

Any use of equipment containing a radio transmitter (eg, telephone, communications radio) that has an antenna inside the cab is strictly **prohibited**. Such equipment must be permanently installed in a proper manner with an antenna on a suitable grounded plate outside the cab.

AK12300,000010B -19-05NOV01-1/1

Safety — Operating Precautions

Inspect Machine

Prior to commencing work, make sure that all machine and boom controls function correctly.

It is not permissible to operate the machine if there is something wrong with the controls of the machine or if they have not been properly adjusted.

Check the operation of the emergency stop every day.

Check the braking capacity before each shift.

- Choose low gear.
- Select the driving direction.
- Press the foot-brake.
- Increase engine speed to about 1500 r/min. The machine shall not move.

AK12300,000010F -19-05NOV01-1/1

Attach Do not Operate Tag

If the machine becomes disabled, attach a warning tag to the steering wheel or levers. If the machine should not be started, remove the ignition key and, as applicable, turn the master disconnect switch to 'OFF'.

Consult the manufacturer's instruction manual and follow recommended procedures.

We recommend to contact authorized service on more demanding maintenance or repairing works.

AK12300,0000044 -19-28FEB02-1/1

Prevent Machine Runaway



CAUTION: The hydrostatic transmission must not be used as a parking brake. **ALWAYS** put the direction selector in neutral and apply the parking brake before leaving the cab.

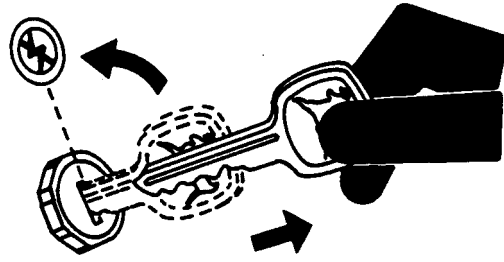
When you stop working, even temporarily (for example while using the phone), lower the harvester head safely to the ground and engage the parking brake.

Never leave the machine unattended while the engine is running.

Do not attempt to start the engine by shorting across starter terminals. Start engine only from operators seat.

When parking the machine:

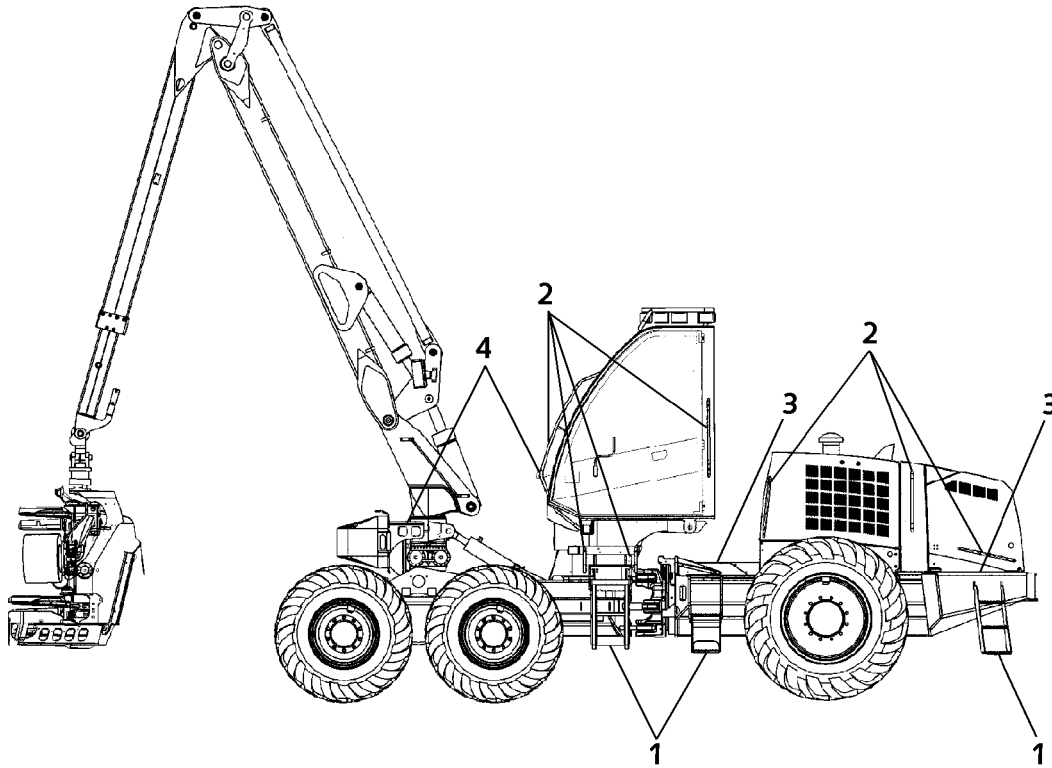
- Lower all equipment to the ground.
- Apply the parking brake.
- Stop the engine and remove the key.
- Turn the main switch off if the machine is to stand still for a prolonged period of time (overnight, for example).



TS230 -JUN-24MAY89

AK12300,0000045 -19-28FEB02-1/1

Use Handholds and Steps



1—Stairs

2—Handles

3—Anti-slips

4—Footsteps

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails, and face the machine. Do not use any controls as handholds.

Keep floors, steps, and running boards clean and free of oil, ice, mud, and loose objects.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine. Never jump on or off the machine.

Repair or replace damaged steps, handrails and running boards.

AK12300,0000046 -19-28FEB02-1/1

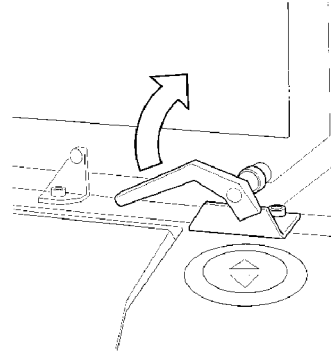
T154116 -UN-19APR02

Prepare Secondary Exits before Starting

IMPORTANT: Remember to unlock the right-hand door before starting the machine. The door cannot otherwise be opened from the outside in an emergency.

The rear window can be quickly opened in the event of an accident by releasing the catches on the lower edge.

The right side door can also be used as a secondary exit if a stump treatment tank is not fitted.



T149775 -UN-10JAN02

AK12300,0000111 -19-05NOV01-1/1

Handle Starting Fluids Safely



CAUTION: Never use a liquid starting aid, if engine is equipped with the pre-heat device. The use with the pre-heat device will cause an explosion in the intake manifold.

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.



TS1356 -UN-18MAR92

AK12300,0000047 -19-28FEB02-1/1

Pay Attention to Bystanders

Keep windows clean and the cab floor free from loose articles.

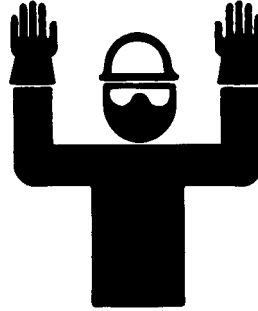
Keep the door closed when driving the machine. Do not operate the machine with any of the safety covers or protective devices removed.

Always keep the reverse warning alarm (if equipped) in working condition.

Use a signal person when moving the machine in congested areas (for example indoor service shop) Coordinate hand signals before starting the machine.

The machine must not be operated by anyone under the influence of alcohol or drugs.

Avoid using the machine when you are tired or ill, as there is a greater risk of accident. Take sufficient breaks and observe local regulations on working hours.



T6964AD -JUN-20DEC88

AK12300,0000048 -19-28FEB02-1/1

Keep Riders of the Machine

Carrying passengers on the machine is prohibited. The vehicle is provided and approved with seating for the operator only.

Riders on machine can be thrown off the machine or injured by foreign objects. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

AK12300,000011B -19-07NOV01-1/1

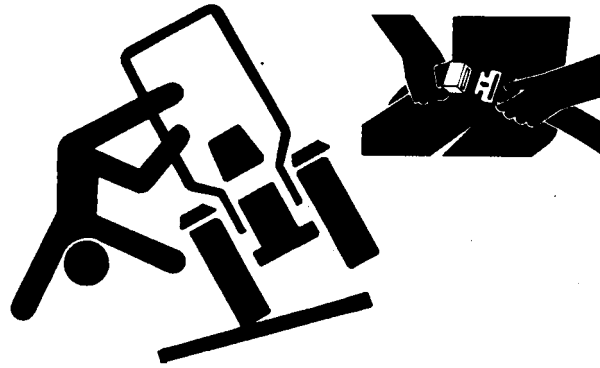
Use Seat Belt

Operate the machine only from a seated position in the operator's seat. Always wear your seat belt.

The complete seat belt assembly should be replaced after three years of usage, regardless of appearance.

Between replacement intervals:

- Carefully examine buckle, webbing, and attaching hardware.
- Be sure that attaching hardware is in place. Tighten, if necessary.
- Replace the seat belt if it does not operate properly, or if it is damaged, worn or deteriorated.



TS205 -JN-23AUG88

AK12300,0000049 -19-28FEB02-1/1

Avoid Risks under Difficult Conditions



CAUTION: Do not jump from the cab. If the machine tips over hold on to the armrests.



CAUTION: Do not feed trees towards the machine.

Choose low gear and adapt driving speed to prevailing ground conditions. Where necessary use anti-skid device, e.g. chains.

On steep slopes always try to drive directly uphill or downhill and avoid changes in direction or driving diagonally (risk of toppling).

If you find yourself in a precarious situation, don't take any risks, call for towing assistance.

In the event of strong wind, trees leaning over or are otherwise difficult to reach, take care and longer time. Avoid unnecessary risks under difficult conditions.

AK12300,000010E -19-05NOV01-1/1

Stop Working if Machine Gives an Alarm

A warning alarm and warning lamp will be activated in the event of machine faults.

Never continue running a machine when the alarm has been given, unless you have checked the cause and taken necessary action. See group Cabin and Controls/Control Lights

AK12300,0000110 -19-05NOV01-1/1

Keep Danger Zone Clear



CAUTION: A danger zone of 90 metres (300 ft) applies when the machine is in operation. The operator is personally responsible for maintaining this safety rule in the absence of the foreman.

When the engine is running, allow no one in the risk zone of the machine.

Maintain a safe operating distance between the equipment and other personnel. Never swing the boom, attachment, or trees over the heads of bystanders.

Check that no-one is in the line of the blade during sawing. Should the saw chain break, fragments may fly off, causing a risk of accidents.

When you stop working, even temporarily, lower the boom and set the harvester head safely to the ground so that it cannot move.



T139370 -UN-06JUN01

AK12300,000010D -19-05NOV01-1/1

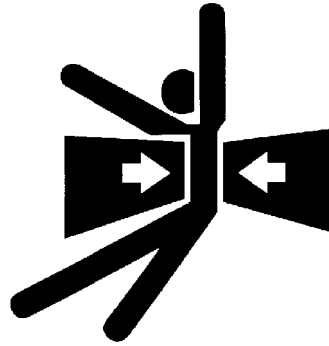
Avoid Crush Points



CAUTION: Standing between the delimbing knives, feed rollers or in front of the saw bar is strictly forbidden while the engine is running. Risk of severe injury.

When the engine is running, allow no one in areas of the machine where they may be crushed by moving components.

All alterations that are made to the electrical system of the machine must be in compliance with service bulletins. In other cases there is a risk that the function of the safety systems of the machine is jeopardized.



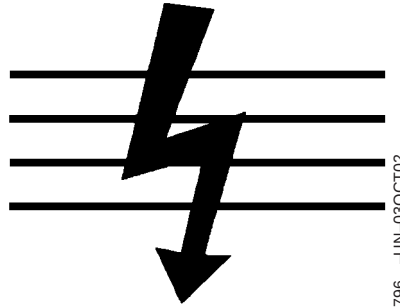
T139371 -UN-06JUN01

AK12300,000005C -19-28FEB02-1/1

Avoid Power Cables



CAUTION: Avoid operating under overhanging electrical powerlines for a high voltage can 'jump' over a distance of several meters in the air.



T152796 -UN-03OCT02

When planning the work, check with the local power company to find out if there are any overhead cables in the working zone and the safe distance to them.

Safety distances to electric lines

Rated voltage (kV)	Min. distance under (m)	Min. distance on the side (m)
1	2 (7 ft)	2 (7 ft)
1 — 45	2 (7 ft)	3 (10 ft)
110	3 (10 ft)	5 (16 ft)
220	4 (13 ft)	5 (16 ft)
400	5 (16 ft)	5 (16 ft)

Normally stay in the cab and back up away from a powerline.

If the engine stops and the machine comes into contact with a powerline and you have to come out of the machine do as follows:

Grip firmly with a bare hand on the wrist of the other hand holding a handle while pushing the door open. Jump out of the **cab both feet together**. Keep on jumping feet together until you are at least 10 meters (33 ft) from the machine and the powerline. If you fall earlier do not stand up, but keep on rolling on the ground toward the same direction.

You run the greatest risk if you are in simultaneous contact with the machine and the ground. Jump clear from the machine to the ground.

AK12300,0000113 -19-05NOV01-1/1

Driving/Transporting on Public Roads

Ensure that the machine is safe for driving. Adhere to local and national traffic regulations.

When traveling on public roads, use accessory lights and other cautionary devices to bring your approach to the attention of other vehicle operators. Ensure that the vehicle meets all regulatory requirements.

Bogie tracks or chains may not be fitted when driving on a public road.

Secure the boom and harvester head in the transport position and ensure that the boom cannot move during the drive.

Lock the cabin levelling system *). See group Equipment — Cabin Levelling/Maintenance of Cabin Levelling.

By observant of the height of the machine when driving, eg, tunnels, viaducts, bridges.

If the machine must be transported, make sure it is adequately secured to the transporting vehicle.

Ensure that the overall height does not exceed local or state maximum height regulation.

*) if equipped

AK12300,000004A -19-28FEB02-1/1

Ensure Safety before Driving on Frozen Waters

Secure, that ice cover is strong enough before driving machine over frozen waters.

- Be ready for quick evacuation from the cabin before driving on a frozen lake, etc.
- Release your safety belt.
- Ensure that the doors are unlocked.
- Open the rear window.
- Ensure that there is nothing to obstruct quick evacuation.
- Restore the above precautions on reaching firm ground.
- Never park the machine on a frozen lake, etc.

AK12300,0000112 -19-05NOV01-1/1

Prevent Fires

When working in a forest environment, it is impossible to prevent combustible debris from collecting in tight corners of the machine. This debris, in itself, may cause a fire; however, when mixed with fuel, oil, or grease in a hot or confined place, the danger of fire is very much increased.

To reduce the chance of a fire starting, observe the following instructions:

- Temperature in engine compartment may go up immediately after engine is stopped. Be on guard for fires during this period. If necessary, open access doors to cool the engine faster.
- Keep machine clean. Check and clean covered compartments, including engine bay, belly plates etc.
- Remove dust and debris especially from the surroundings of the exhaust pipe and the engine heater (if installed).
- Wash the machine regularly.
- Clean the radiator grille and cooling ducts regularly.
- Inspect the machine daily for potential fire hazards and make any necessary repairs immediately.
- Inspect electrical wiring and connections, fuel and hydraulic hose runs and fixturing to ensure they are secure and not rubbing against other components.
- Clean up any excess grease and oil accumulation and repair the leak immediately.
- Use only nonflammable solutions for cleaning the machine or components.
- Store rags in a safe, fireproof location.
- Anti-slip chains and tracks can cause sparks and fire in dry terrain. Avoid using these appliances in such conditions unless other safety risks are involved.
- Before starting repair work, such as welding, the surrounding area should be cleaned and a fire extinguisher should be close by.
- Maintain a charged fire extinguisher on the vehicle at all times and **know how to use it.**



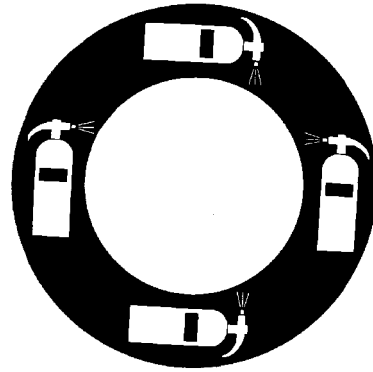
TS227 -UN-23AUG88

AK12300,000004B -19-28FEB02-1/1

What to Do if the Machine Fires?

- Turn the engine off.
- Turn the main switch off.
- Fight the fire by means of the fire extinguisher, if possible.
- Make sure that the fire will not spread to the surrounding area.
- Call for help if necessary.

Hand-held fire extinguishers can be used through the apertures that are bordered with the extinguisher decals.



T152353 -UN-06MAR02

AK12300,000004C -19-28FEB02-1/1

Safety — Maintenance Precautions

General



CAUTION: The manufacturer shall assume no responsibility for any alterations made to the electrical system of the machine if the changes are not in compliance with service bulletins. There is a risk that the function of the safety systems of the machine is jeopardized.



CAUTION: The use of engine hoods and belly pans has been facilitated by means of lift supports. Should these supports become defective, the cover may unexpectedly come down. Do not go under these parts when lifting/lowering them or before they are properly secured in the uppermost position.

Keep machine in good condition and all parts properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

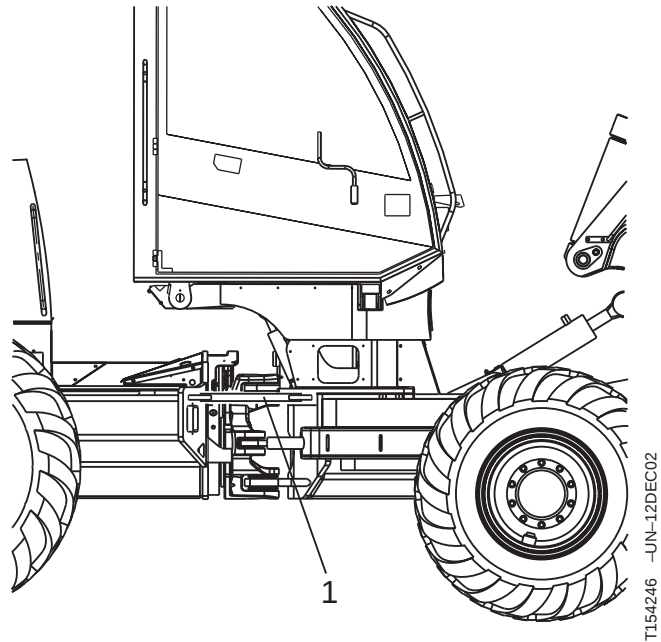
Adhere to the maintenance schedule in the operator's manual.

AK12300,000010C -19-05NOV01-1/1

Before Servicing

Before servicing machine:

- Park the machine on a level surface.
- Lower the boom and place the harvester head to ground.
- Fit the steering interlock (1) to secure the center hinge, see illustration.
- Engage park brake. If repairing the brakes, make sure that the machine cannot start moving.
- Turn key switch OFF. If maintenance procedure must be performed with engine running, do not leave machine unattended.
- Turn battery disconnect switch off.
- Allow engine to cool.
- Make sure that unauthorized persons are not allowed near the machine.



Prepare service properly:

- Clean work area and machine.
- Make sure you have all necessary tools and right parts on hand
- Understand service procedure before doing work. Read all instructions thoroughly; do not attempt shortcuts.

NOTE: The operator and service personnel are responsible for safety on and around the machine.

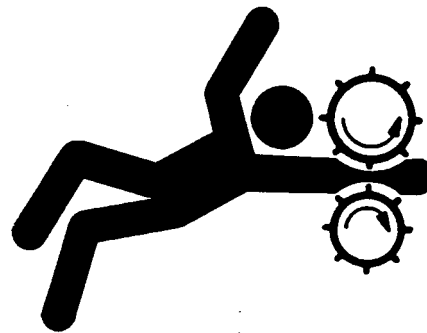
AK12300,0000114 -19-06NOV01-1/1

Use Proper Clothing

Use the appropriate working clothes. Loose jackets and sleeves or long hair may get caught in the moving parts of the machine. Never service machine while it is moving.

Rings and other jewellery can get caught in the machinery or cause it to short circuit. Use protective goggles, gloves and safety shoes where required.

Always wear protective gloves when handling saw chains and delimbing tools.



TS228 -UN-23AUG88

AK12300,000004D -19-28FEB02-1/1

This as a preview PDF file from **best-manuals.com**



Download full PDF manual at **best-manuals.com**