

Vermorel®

SC252
Stump Cutter

Operator's Manual



© 2005 Vermeer
Serial No. 125024
Chassis No. 125401490
Warranty Order No. 180006220

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General safety messages appear in the Safety Messages section. Specific safety messages are located in appropriate sections of the manual where a potential hazard may occur if the instructions or precautions are not followed.

A signal word (**DANGER**, **WARNING**, or **CAUTION**) is used with the safety alert symbol.

Safety signs with signal word **DANGER**, **WARNING**, or **CAUTION** are located near specific hazards.

DANGER Imminent hazards which, if not avoided, will result in serious personal injury or death.

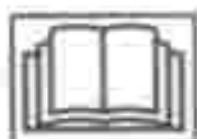
WARNING Potential hazards or unsafe practices which, if not avoided, could result in serious personal injury or death.

CAUTION Potential hazards or unsafe practices which, if not avoided, could result in minor personal injury or product or property damage.

SAFETY SYMBOL EXPLANATION



This is the safety alert symbol. This symbol is used in combination with an electrified mark or other symbols to alert you of the potential for bodily injury or death.



WARNING: Read Operator's Manual and safety signs before operating machine.

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Safety Messages 10-1



WARNING: Check manual before operating. Machine should be in good operating condition (and all safety equipment installed and functioning properly).



WARNING: Wear personal protective equipment. (See properly. Refer to Operating the Machine, page 66.)



WARNING: Keep operations area.



WARNING: Finger retains on splintered. Operate with care.



WARNING: Do not use the hydraulic system for anything other than its intended purpose. For more information, see the Operator's Manual for the hydraulic system.



WARNING: Pressurized fluid may penetrate body tissue and result in serious injury or death. Leaks can be invisible. Keep away from any suspected leak. Release pressure in the hydraulic system before working on leaks, disconnecting hoses, or performing any other work on the system. If you must penetrate the system to find a suspected leak, use an object such as a piece of wood or cardboard rather than your hands. When inserting a fitting where some residual pressure may exist, always insert the fitting until it begins to leak. Wait for leaking to stop before disconnecting the fitting. Fluid spilled under the skid must be cleaned immediately for skid safety. Contact your dealer for more information.



WARNING: Fuel and fumes are explosive and toxic.

Shut off engine before refueling. No flames. No smoking.

50252 Skid Cutter

Safety Messages 10-3



WARNING: Failure to follow any of the preceding safety instructions or those that follow within this manual, could result in serious injury or death. This machine is to be used only for those purposes for which it was intended as explained in this Operator's Manual.

Section 20: Machine Controls

ENGINE CONTROLS - KOHLER

- (1) Ignition Switch
Vertical position: engine off
Up position: engine on
- (2) Throttle
Push left: engine idle
Push right: engine full
- (3) Choke
Push left: full choke
Push right: normal choke
- (4) Hourmeter
Records total machine operating time

NOTE: Engines are equipped with an oil pressure sensing system. When oil pressure decreases below an acceptable level, engine will shut off.



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Machine Controls 20-1

GROUND DRIVE/CUTTER WHEEL CONTROLS

- (1) Ground Drive
Push: forward travel
Pull: reverse travel
- (2) Ground Drive Speed
Clicking: normal speed
Constant clicking: maximum speed
- (3) Cutter Wheel Drive
Pull out and push in: engage cutter wheel
Push down: disengage cutter wheel



NOTE: Cutter wheel drive must be disengaged before engine will start.

(1) **Steering Handle**

Push  turn right

Pull  turn left

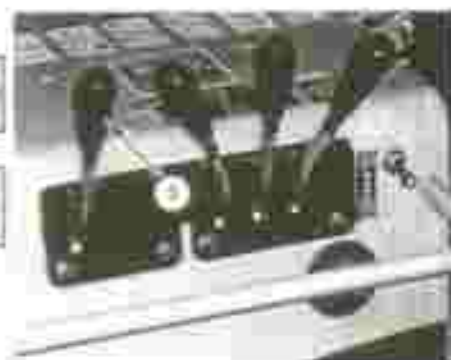


HYDRAULIC STEER (OPTION)

(1) **Hydraulic Steer Lever**

Push  turn right

Pull  turn left



TRANSPORT LOCK TUBE

- (1) Transport position
- (2) Storage location when making stamps



Section 21: Starting Procedure

STARTING THE ENGINE

Step 1: Lower Cutting Blade (See chapter 10) (1) (2)

Step 2: Place Throttle Lever (2) against battery. Stop and Wait.

Step 3: If the engine is not, pull choke (3) and return.

IMPORTANT: Never use starter motor for more than 30 seconds at a time. Allow it to cool 1 minute between attempts.

Step 4: Turn Ignition Switch (4) with key to START. Release the clutch (4) when in the engine starts.

Step 5: Gradually push choke (3) right up (2) slowly warm up.

Step 6: Adjust throttle to get desired RPM speed, and allow engine to stabilize (4) before engaging (3) riding wheel.



JUMP-STARTING



WARNING: Battery acid, terminals and related connections become hot and acid may splash, otherwise causing to the eyes of California to cause cancer and reproductive harm.

Wash hands after handling.

Before jump-starting the machine, check that battery is not frozen or below low operating limit. Do not jump-start or charge a frozen battery.

Battery Explosion - Avoid



WARNING: Battery fumes are flammable and can explode. Keep all burning materials away from battery. Battery explosion can blind and can kill and burn. Tools and other objects can make sparks.

Do not lean back over and back. Avoid jump-starting.

IMPORTANT: Always photograph you or others and lights in both the accident scenes and the battery battery to reduce risk of battery explosion.

IMPORTANT: The machine has a 12 volt starting system. Do not use a 24 volt system for jump-starting.

The set of the vehicle used to jump-start should be connected with the disabled machine. Vehicles in contact form a ground connection which allows a spark to occur at the battery when positive jumper cable is disconnected or removed.

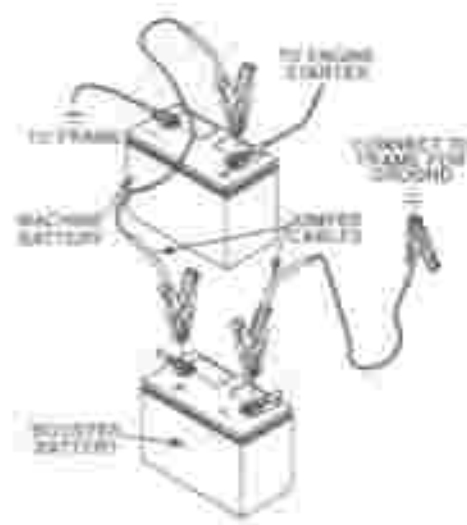
In case of any accident:

External: Flush with plenty of water. If eyes have been exposed, flush with water for 15 minutes and get prompt medical attention.

Internal: Drink large quantities of water or milk, follow with milk of magnesia, lemon juice or vegetable oil. Call a physician immediately.

Jump-Starting Procedure

- Step 1: The ignition key must be in the OFF position.
- Step 2: Connect positive (+) jumper cable (red) to positive terminal on discharged battery and to positive terminal on booster battery.
- Step 3: Connect one end of the negative (-) jumper cable (black) to the negative terminal on the booster battery.
- Step 4: Finally connect other end of the negative (-) jumper cable (black) to the positive frame away from the battery. Fuel and lights will stop, and engine will start. Do not touch the negative (-) terminal of discharged battery.
- Step 5: On starting the engine refer to "Starting the Engine," page 21-1.
- Step 6: After starting the engine, disconnect jumper cables in reverse order.



COLD WEATHER STARTING

When operating in cold weather, it is important to use the recommended engine oil viscosity and fuel to reduce starting problems (refer to the Engine Operator Manual).

In cold weather, the hydraulic oil will become thicker (higher viscosity) and may become so viscous that the oil is airtight.

In cold weather, a longer warm-up period will become necessary. Let the engine run for a minimum of five minutes at a fast idle before starting any operating functions.

Before starting the engine, refer to the Engine Operator Manual section on cold weather starting for correct procedure. In addition, refer to "Starting the Engine," page 21-1.

NOTE: Reduce engine speed if hydraulic pump speeds. Pump speeding can damage both oil and which can damage the pump.

STOPPING THE MACHINE

For your safety and the safety of others, use the Shutdown Procedure below, whether driving, idling, or stopping, or preparing for transport.

A violation of this procedure may be used as evidence when the operator is held responsible for an emergency response.

- Step 1: Reduce engine speed to idle.
- Step 2: Disengage cutter wheel drive.



WARNING: The cutter wheel will continue to turn for a short time after the clutch has been disengaged.

IMPORTANT: Whenever operating and disengaging with great cutting pressure, run engine without load for a few minutes before shutting it off. This allows engine temperatures to decrease and coolant levels will be reestablished.

- Step 3: Shut off engine and remove key.
- Step 4: Wait for the cutter wheel to stop rotating.
- Step 5: If loading onto a trailer or truck, or preparing to tow (with wiring system) behind a vehicle:
 - Raise cutter wheel and disengage transport bar (see EN 100 V2), and engage. Control the beam above the tube.
 - Lower beam and the transport lock plate.

**QUICK STOP PROCEDURE**

- Step 1: Reduce engine speed to idle.
- Step 2: Disengage cutter wheel drive.
- Step 3: Lower cutter wheel and disengage transport bar (with wiring system) when applicable.

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause a crash or could lead to injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Volvo. See NHTSA.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual questions between you, your dealer or Volvo. See NHTSA.

To contact NHTSA, you may either call the DOT's Safe Recall Hotline toll free at 1-800-487-6368 (1-800-425-4286) or file a report online at www.safercar.gov, or write to NHTSA, U.S. Department of Transportation, 400 14th St. SW, Washington, D.C. 20590. You may also obtain other information about your vehicle safety from the Dealer.

TOWING VEHICLE SELECTION



WARNING: Loss of steering or braking control can result in injury or property damage. Use a towing vehicle that is large enough for sufficient steering and braking control.

HITCHING MACHINE DIRECTLY TO TOWING VEHICLE

Step 1: Immobilize transport lock valve.

Step 2: Remove optional dual wheels. Refer to the *Protecting the Machine and Heavy Duty Axles* section, "Dual Wheels (Optional - Tractor/Trailer)" page 40-4, for removal instructions.

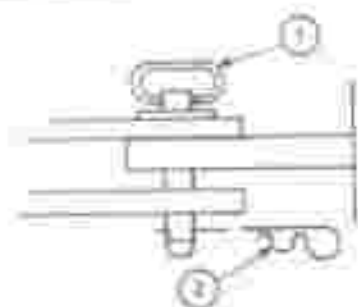


WARNING: The safe gear bar or the handle may come off at high-speed speeds.

Dual wheels must be removed before towing without a trailer.

Step 3: Use a hitch pin which can be locked in place, such as a hitch pin with a hairpin cotter through a hole in the end of the pin.

- (1) Hitch Pin
- (2) Hairpin Cotter



- them to the towing vehicle. Keep chains as close as possible but leave enough slack for turn-around.
- Step 5 Fully extend jack (4), raise lift, and secure with mechanism per (5) and (6) steps.



WARNING: There are applicable laws regarding the use of lights and other power accessories on a towed vehicle.

- Step 6 Attach electrical connector (7) mounted to the towing vehicle. Check that indicator lights operate properly.
- Step 7 Backhoe back wheel back your 180° as slow to disengage the ground drive when leaving the machine.



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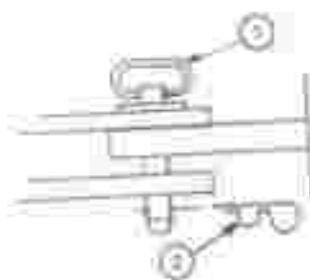
Transporting the Machine 30-3

HITCHING TLR25 TRAILER TO TOWING VEHICLE

NOTE: There are two types of hitches available, either 2" ball, 3/4" ball and coupler.

Operating Clevis Hitch

- Step 1 Position machine clevis assembly which fits pin.
- Step 2 Use a split pin (8) which can be locked in place with a lock washer, a tapered cotter pin (9) through a hole in end of pin.



Operating 2" Ball Coupler Hitch

WARNING: When using a ball coupler hitch, the clamping bar must be tightened against the ball. Friction is applied clamping fit over allow the second machine to become detached from the towing vehicle.

WARNING: The ball has diameter more by 2". Using a hitch ball that is smaller can allow the towed vehicle to become detached from the towing vehicle.

- Step 1 Pull up on lever (1) and pull back back assembly (2) to open it up.
- Step 2 Place coupler over the 2" ball.
- Step 3 Push back assembly forward and down until lever is in locked position.





WARNING: When using a ball coupling hitch, the coupling key must be positioned against the ball hole. Pulling to install the coupling key can allow the ball hole to become widened. Ensure the coupling is tight.



WARNING: The hitch ball diameter must be 2-5/16". Using a hitch ball that is smaller can allow the towing vehicle to become unhitched from the towing vehicle.

- Step 1 Pull out pin (1) and move lever (2) up to unlock coupling safety receiver (3).
- Step 2 Place coupling wedge over the hitch ball.
- Step 3 Push coupling wedge receiver into the hitched position.
- Step 4 Slide locking pin (4) through the coupling lever (2) hole. Remove pin (1).

COMPLETE CONNECTION

- Step 1 Cross safety chains (5) under the tongue and attach them to the towing vehicle.

NOTE: Keep chains as short as possible, but have enough slack to turn corners.

- Step 2 Fully raise jack (6), raise (7), and lower with caution pin (8) and handle.



WARNING: (If not applicable) Never exceeding the tow capacity and other possible requirements concerning road use.

- Step 3 Attach electrical connector (9) to the towing vehicle. Check that lights and signals operate properly.



SC352 Slump Cutter

Transporting the Machine: 30-6

LOADING MACHINE ONTO TLR25 TRAILER

NOTE: SC352 Slump Cutter requires two spreader dunnies when securing onto and off on TLR25 Trailer.

IMPORTANT: Load machine on level ground.

Before loading machine, raise and remove wheel wheel. Load transport lock (1), pin (2), and handle.

- Step 1 Pull handle (2) to release each set. Lower strap and lower wedge to the ground.

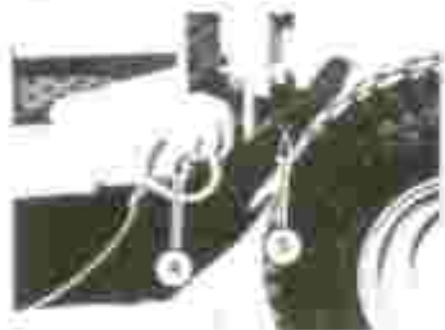
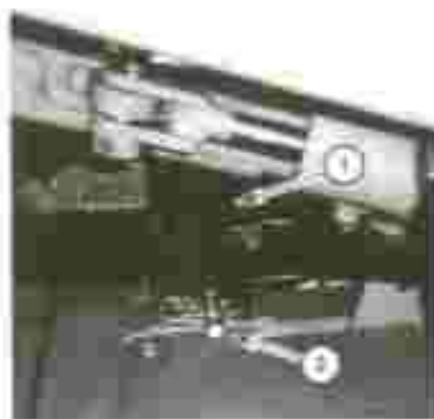
IMPORTANT: Both ground down wheel lock pins must be engaged to keep slings secure from jamming when starting the trailer ramp.

- Step 2 Drive up ramp into trailer, slowing the load. The ramp will stop up as the machine is driven onto the trailer.

- Step 3 Align tow bars on slump cutter tongue with bumpers. Use tie-downs (if equipped) additional hitch, wedge with vertical bars.

- Step 4 Lock all lock pin (4) and handle (5).

- Step 5 Follow Unlatching Procedure, page 20-1.





(1) ground reaction.

IMPORTANT: Do not operate on hard
ground.

Step 1: Push Section III back into
lock stop. Do not remove strap
from machine.

Step 2: Follow Starting Procedure, page
21.5.

Step 3: Remove barpin (B) and hole pin
(C).

IMPORTANT: Before unloading machine,
left ground drive jack pins must be engaged.
To prevent machine runaway and keep straps
tight from tearing when descending slope,
keep:

Step 4: Drive machine off trailer.



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Transporting the Machine 33-7

Step 2: Raise roller wheel and remove
transport lock tube (B). Place tube and
pin on side of loaded ground reaction
(B).



LOADING MACHINE ONTO TRUCK BED OR GENERAL PURPOSE UTILITY TRUCK

NOTE: To transport stump cutters, always transport with the double wheel steering axle. It must be loaded on a truck or a general purpose utility truck.



WARNING: Before transporting machines on trailers (towed) and the truck or trailer, always read the manual for safety precautions and information.

Load and unload machines on level ground.

Do not lift the machine.

IMPORTANT: While ground drive wheels lock pins must be engaged to help prevent machine from tipping when assembling or disassembling.

Step 1: Drive machine onto truck or trailer.

Step 2: When stopped, lift and remove lock pins.

IMPORTANT: Do not use the vehicle on the driveway.

Step 3: The machine drive wheels lock:

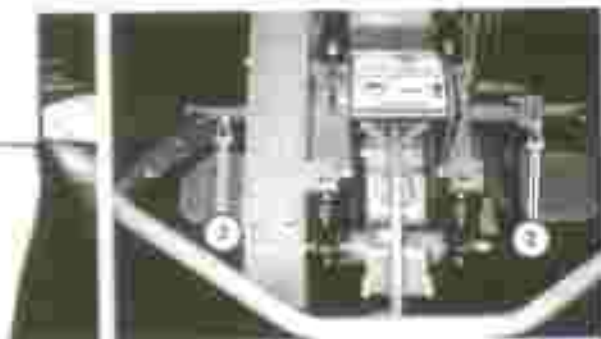
- Lock pin (see 13)
- Cutter guard lock (2)
- Cutter guard pin (4)

Disassemble the machine.

IMPORTANT: Before unloading machine, lock ground drive wheels lock pins must be engaged to prevent machine from tipping and keep strong cutting block during when assembling, unloading.

Step 1: Remove the dump.

Step 2: Refer to *Steering Procedure*, page 25.1. Drive machine off the truck or trailer.



INTENDED USE

- The Vermeer 30252 stump puller is designed solely, by use, to remove tree stumps and roots of below ground level by cutting and pulling.
- Always use the machine in accordance with the instructions, warnings, or other Operator's Manual safety signs on the machine, and other material provided by Vermeer 310, Ltd.
- Proper maintenance and repair is essential for safety and for efficient operation of the machine. Do not use the machine if it is not in suitable operating condition.

OPERATOR QUALIFICATIONS



WARNING: Read Operator's Manual and safety signs before operating machine.

- After any repairs, properly instructed individuals to operate machine.
- Persons familiar with the machine, operation and use of the machine under the supervision of a trained and experienced operator.
- The operator must be familiar with the workplace's safety rules and regulations, and must be mentally and physically capable of operating the machine safely.

PERSONAL PROTECTIVE EQUIPMENT



WARNING: Wear personal protective equipment. Wear flame resistant clothing and avoid long hair. Avoid jewelry, such as rings, wristwatches, neckties, or scarves.

Operating the machine will require you to wear protective equipment. You should always wear a hard hat, safety shoes, hearing protection, and eye and face protection, if working near traffic, when refueling, etc.

- Hearing protection as recommended when operating the machine.

NOTE: Hearing protection always provide following levels of sound reduction. It is important to select a device that is illegal and appropriate for your specific work environment. Actual sound levels may vary widely depending on your working conditions. To determine the level of hearing protection your work environment requires, consult the help of your local environmental noise specialist.

- Eye protection with lenses of wraparound safety glasses or goggles and a full face shield.



WARNING: There is potential for injury to eye and face injuries.

Use eye and face protection.

NOTE: Face shields must meet ANSI Standard Z87.1 - (IC) and must be made of 1/16" (2.117) thick polycarbonate material. Face shields are exempt from certain sections, including your local Vermeer dealer.

- Other workers in the immediate area must also wear face face hearing, and eye protection.
- Wear flame resistant clothing and avoid long hair.
- Avoid wearing jewelry, such as rings, wristwatches, neckties, or scarves.
- After any repairs, properly instructed individuals to operate and avoid machine.

Sound Levels

Sound pressure level and sound power levels were determined according to test procedures specified in ISO 1171 and ISO 1744. Data applies to machines with 2110P Kubota-Cummins PTA engine.

Equivalent Continuous A Weighted Sound Pressure Level at Operator's Ears is specified in ISO 11204 LWA = 95.0dB(A)

Exciter Sound Power Level as measured in ISO 1744:

Leq = 101.4dB(A)

NOTE: The stated sound levels are representative for a given speed and condition. Operating conditions may vary at each job site. The actual sound levels for your application and operating conditions may be different.



Vibration Levels

Hand/arm vibration exposure has been measured according to test procedures specified in ISO 5349. The level is less than 2.5 ms⁻².

PREPARE MACHINE

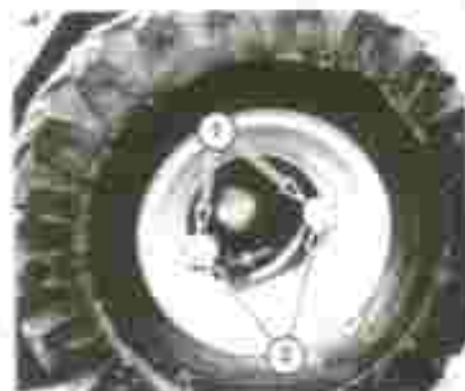
Dual Wheels (Option) - Install/Remove

Install dual wheels to:

- Provide more stability in uneven terrain.
- Provide more traction on soft and uneven surfaces.

Warnings and Notes:

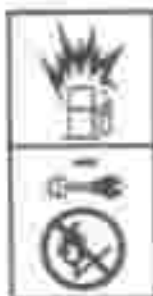
- Step 1: Raise machine up and lift it to 2" off the ground.
- Step 2: Use each wheel lift handle with feet on machine (see photo).
- Step 3: Install wheels (D) and 19x8" bolts (G). Torque bolts to 33 ft. lbs. (45.1 Nm).
- Step 4: Reverse Steps 1-3 to remove wheels.



WARNING: The side rails (A) or (B) should not come off at operating speeds.

Do not attempt to lift the machine by the side rails (A) or (B).

Fuel Tank - Fill



WARNING: Fuel and fumes are explosive and flammable.

Shut all engines before refueling. No flames. No smoking.

Fill fuel tank at the end of each day or previous breakdown. Do not fill tank to the very top. Leave room for expansion.

Always wear a clean head if a fuel container gets full. Fill (2) to fill tank.



Hydraulic Fluid Level - Check

IMPORTANT: Check hydraulic fluid is very important. Do not fill tank or allow contaminants into the tank. Filter all hydraulic fluid through a 10-micron filter before adding it to the tank.

Step 1: Open service cover over and remove hydraulic oil cap (1).

Step 2: Add fluid. Fluid level must not fall below the bottom line on the dipstick or between the top line (only in "Lubrication" page 80-1, in the Specifications section of the Maintenance Manual).

NOTE: The hydraulic fluid must be free of bubbles. Bubbles are trapped air that is entering the hydraulic system.

Step 3: Install (1) cap.

SC252 Stump Cutter

Preparing the Machine and Work Area 40-5

Engine System - Check

Step 1: Check air intake screen (1) and external surfaces of engine. Ensure they are clean and not blocked.

Step 2: Check engine oil level (2). With engine level (3) to hot (not above the "H" mark). Refer to the Engine Operation Manual for details.

Step 3: Check air cleaner (3) condition. Remove dirt and debris and check for loose or damaged parts.



NOTE: Engines are equipped with an oil pressure warning switch. When oil pressure decreases below an acceptable level, engine will shut off.

IMPORTANT: Keep oil fill cap tight and dipstick in place while the engine is running. The fuel pump can produce pressure pulsations in engine fuel.

- If oil fill cap is off, the engine will not start.
- If (2) dipstick is not inserted, the engine will not start or it might start and run rough.
- If too much oil is in the engine, it might not start or it might start and run rough.

Air Cleaner Restriction Indicator - Check

When the indicator becomes visible on the pressure indicator indicator (1), all cleaner element must be replaced. Flush button (2) to level indicator.

- **DO NOT** reuse cleaned (and) indicator (check and) area.
- **DO NOT** reuse or Minus element. It must be replaced.

Refer to "Air Cleaner Element - Replace," page 252 in the Maintenance - 100 Service Hour section of the Maintenance Manual for replacement instructions.

IMPORTANT: Air restriction indicator will not function correctly if

- Element is damaged or not seated properly in housing.
- Air cleaner element body is damaged. This will affect air flow rates engine.
- Air transfer duct between air element and engine is damaged or clogged and loose.
- Air duct between air element and pressure indicator is damaged or clogged.



PREPARE WORK AREA



WARNING: Before starting work, remove from vicinity of work, secondary growth, stones, wire and other debris from dump and work area. Do not come too exposed surface back. The rotary wheel can pull a lot of things at rest and then it toward the ground.



Keep spectators away.

UNDERGROUND UTILITY CONTACT



WARNING: Electricity or gas explosion can kill. Loose light or hot cable can result in fire damage.

Locate utilities before starting a project. Call 1-800-255-2689 (Toll-free) or contact your utility company or request engineering services.

Before you start any digging project, always begin to call the local One-Call center or your own call company that does not subscribe to One-Call system. The service is approved by One-Call System International, consult the appropriate utility jurisdiction or national regulating authority to locate and mark the underground installations. If you do not call, you may have to accept an either personal or corporate responsibility of anyone damage the installation, or equipment and safety.

The One-Call representative will verify participating utility companies of your proposed digging activities. If you are in the U.S. or Canada and do not have the number for the local One-Call representative in your area, you may dial the North American One-Call number 1-800-255-2689 for the information. Utilities will then mark their underground facilities by using the following international marking color:

Color	Electric	Gasoline	Water
Yellow	Gas, Oil or Petroleum	White	Proposed Excavation
Orange	Communications (Fiber optic, TV)	Pink	Drainage
Blue	Fresh Water		

OSHA CFR 29 1926.1111 requires that the estimated location of underground utilities be determined before beginning the excavation or underground operations. When the actual excavation approaches an unknown utility location, the exact location of the underground conditions must be determined by a safe, acceptable and dependable method. If the utility cannot be positively located, it must be shut off by the utility company.



EC252 Stump Cutter

Operating the Machine 50-1

CUTTER WHEEL GUARD



The cutter wheel guard (1) helps keep you away from the rotating cutter wheel. However, the most effective protection from injury is to stay away from the cutter wheel when it is turning.

The cutter wheel guard needs to allow it to flow over obstructions. Some wheel guards in the market position while cutting a stump.



RUNOVER/HOLLER PREVENTION

- Keep feet clear of tires. Stand in front of a conveyor belt or the machine while operating the controls.
- Never engage the machine faster than you can comfortably walk. Lines should speed up every second or every 10 feet.
- Be alert and aware of your location when operating on bridges, on road ditches, gullies, or other terrain where rollover could occur.
- If a machine must be transported across a slope where rollover is possible, always tie it in a direction which points the front of the unit up the slope.
- Never attempt to manually start the conveyor on a slope or remove yourself with the wheel lock you disengage. Feet of control may result.



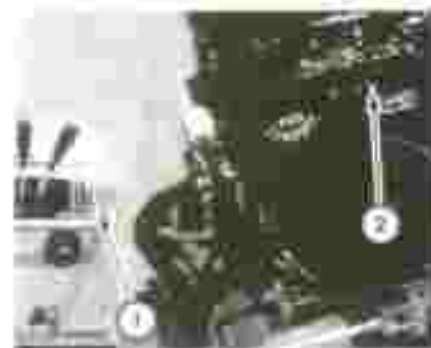
CUTTING STUMPS:

Step 1: Follow Starting Procedure page 2111

IMPORTANT: Engage and disengage wheel lock with motor at 0 RPM.

Step 2: Pull Cutter Wheel Control Lever (1) and lock (1) to engage the cutter wheel.

Step 3: Push Thrust Control Lever (2) to maximum engine RPM.

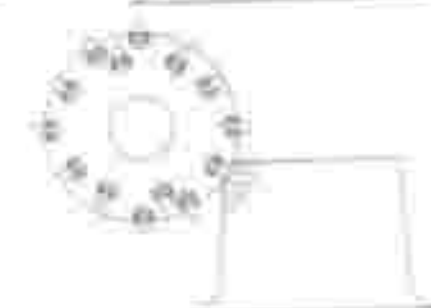


SC252 Stamp Cutter

Operating the Machine 50-3

IMPORTANT: Cut stumps using only the recommended cutting area.

- Never walk on stumps. A rollover could occur under footlock and movement through the rear right alternator.
- Never cut stumps from the top. The cutter head will move down and debris could launch the operator back to the right alternator.



Step 4: Pull the cutter wheel at 0 RPM.

Step 5: Use Cutter Wheel Thrust Control Lever to raise or lower the stumps.

NOTE: The size and speed of cut depends on the diameter of the wood.

Step 7: Repeat previous step until you have cut approximately 10" (25 cm) of the stump.

Proceed with optional Auxiliary cutting system.

When Using Wheel Sliding Cutting Lever: At various times Auxiliary cutting system machinery stops and head adjusts being used by turning backside of head to the other position to maintain engine RPM while operating stump.

Step 8: Raise cutter wheel just use *Depth Lever* to raise pressure 1/4" (10-15 mm) further into the stump.

Step 9: Repeat previous cutting procedure.

Main shaft cutting will not completely remove the stump.

Step 1: Lower engine speed to idle.

Step 2: Disengage cutter wheel.

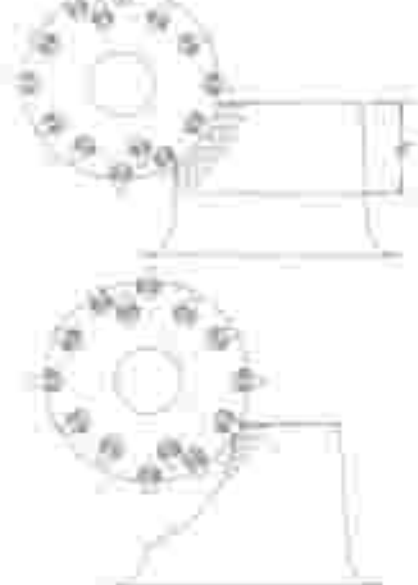
Step 3: Fully raise cutter wheel.

Step 4: Move the cutter wheel to left setting.

Step 5: Reengage machine.

Step 6: Repeat previous procedure for cutting the stump.

WARNING: Do not come into exposed surface back. The cutter wheel can grab a cut length of wood and throw the wood toward the operator.



REMOVING CHIPS



WARNING: Contact with rotating cutter wheel will result in serious injury (limb amputation, or death).

Rotating cutter wheel can throw chips.

Keep ground clear.
504 4970

Always follow instructions with machine operation.

Step 1: Move machine away from the stump.

Step 2: Follow *Shutdown Procedure*, page 20-5.

Step 3: Move chips with a rake or shovel.

Step 4: Move machine back into position.

When the cutting operation is complete, follow *Shutdown Procedure*, page 20-5.



WARNING: Use the Shutdown Procedure before servicing, cleaning, repairing, or transporting machine. Refer to the Shutdown Procedure, page 27, for proper instructions.

Visually inspect machine daily before starting the machine.

Make any adjustments to your equipment, unless specifically recommended by Deere Manufacturing Company.

SAFETY SIGNS

Safety signs located on your machine contain important and useful information that will help maximize your equipment safety. Refer to the Parts Manual and Attachments Catalog, page 28, for location.

To ensure that all safety signs remain in place and legible condition, follow the instructions given below:

- Keep safety signs clean. Use a soft cloth to clean. Do not use any solvents, abrasives, or other caustic cleaners that will damage the sign.
- Replace any damaged or missing safety signs. When replacing signs, the temperature of the mounting surface must be at least 50°F (10°C). The mounting surface must also be clean and dry.
- When replacing a machine component with a safety sign attached, replace the safety sign also.
- Replacement safety signs can be purchased from your Deere equipment dealer.

HOURLY METER - CHECK FOR MAINTENANCE INTERVAL

The hourmeter on the front end is designed to determine maintenance intervals for the machine. The hourmeter indicates the total number of hours the engine has been in operation.

Maintenance intervals are included for reference only. Before performing any maintenance, refer to the Maintenance Manual for safety guidelines and correct procedures.

MACHINE - GREASE

As a general rule, grease machine after 5 hours and after 10 or 20 hours for the day. This practice will reduce daily time necessary spent for maintenance as well as wear and tear.

Clean all fittings and joints of grease application equipment before starting grease. If you grease frequently, replace them frequently.

MAINTENANCE INTERVALS - KOHLER ENGINE

At 5 Service Hours or Daily

- Initial Engine Oil Change

Every 100 Service Hours

- Engine Oil - Change
- Engine Oil Filter - Replace
- Air Cleaner Element - Replace
- Spark Plug Condition - Check
- Engine Cooling System - Clean

As Required

- Engine Hoses - Check
- In-Line Fuel Filter - Replace

MAINTENANCE INTERVALS - GENERAL

Every 5 Service Hours

- Cutter Wheel Bearings - Grease
- Jackshaft Bearings - Grease
- Cutter Wheel Shaft Ball Bearings - Check After 1000 to 2000 Service Hours
- Jackshaft Shaft Bearings - Check After 1000 to 1500 Service Hours
- Fuel Tank - Fill

- Tension Hoses - Check
- Air Cleaner/Restriction Indicator - Check
- Hydraulic Fluid Level - Check
- Cutter Wheel Drive System - Check
- Blade Swing Check - Ground
- Boomhold Pin - Grease
- Cutter Wheel Bearings - Grease
- Steering Frame / Inside Wheel Spinning Axle - Grease
- Hydraulic Steering Assembly - Grease

Every 50 Service Hours or Weekly

- Cutter Wheel Drive System - Check
- Initial Hydraulic Fluid Filter - Replace
- Cutter Wheel Belt Tension - Check/Adjust
- Jackshaft Belt Tension - Check/Adjust
- Hydraulic Pump Belt Tension - Check/Adjust
- General Drive Chain - Oil
- General Drive Chain Tension - Check/Adjust
- Cutter Wheel Belly Pan - Clean/Polish

Every 100 Service Hours :

- Hydraulic System - Check
- General Machine - Check
- Tires and Rims - Check

Every 250 Service Hours

- Tension Axle - Oil
- Hydraulic Fluid Filter - Replace
- Battery Electrolyte Level and Terminals - Check

50252 Skid Cutter

Maintenance Intervals 60-3

Every 500 Service Hours or 6 Months

- Hydraulic Fluid - Change
- Mainframe Drive Pin - Grind
- Hydraulic Fluid Strainer - Inspect
- Wheel Bearings - Check
- Trailer Wheel Bearings - Check

As Required

- Cutter Wheel Guard Pin - Lubricate
- Battery - Replace
- Hydraulic Lights (Optional) - Replace
- Cutter Wheel Belt - Replace
- Jackshaft Belt - Replace
- Hydraulic Pump Belt - Replace
- Cutter Teeth - Replace
- Steering Axle Tie Rods - Lubricate
- Machine - Shine

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