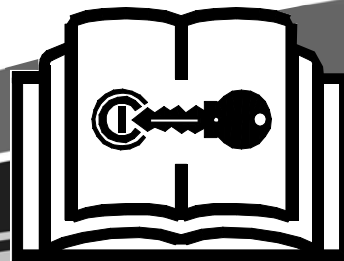


SC362 Stump Cutter

Operator's Manual



SC362_o1_00
Serial No. 101 -
Order No. 105400CT8
Cabled Assembly Order No. 163708565

Vermeer[®]

<https://truckmanualshub.com/>

Introduction

This manual explains the proper operation of your machine. Study and understand these instructions thoroughly before operating or maintaining the machine. Failure to do so could result in personal injury or equipment damage. Consult your Vermeer dealer if you do not understand the instructions in this manual, or need additional information.

The instructions, illustrations, and specifications in this manual are based on the latest information available at time of publication. Your machine may have product improvements and features not yet contained in this manual.

Vermeer Corporation reserves the right to make changes at any time without notice or obligation.

Operation instructions are included in the two Operator's Manuals provided with the machine. The tethered (cabled) manual must remain attached to the machine for ready reference. Store it in the manual storage box when not in use.

Lubrication and maintenance procedures are in the Maintenance Manual provided with the machine. Refer to it for all lubrication and maintenance procedures.

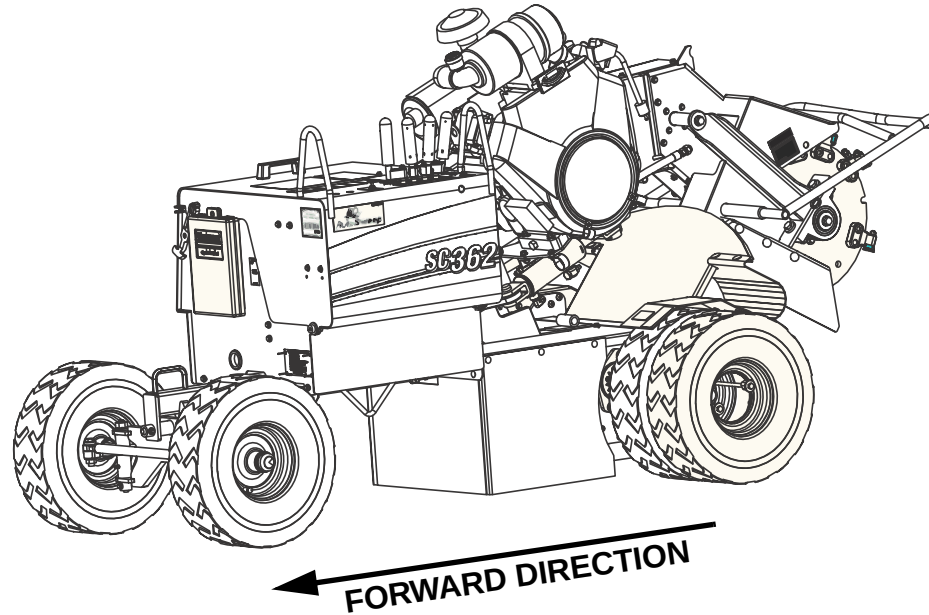
Additional copies of the manuals, and Operations and Safety video, are available from your dealer. Reorder numbers are listed on the front covers of the manuals and on the video.

Copies of this manual are available in Spanish from your dealer. Other languages may also be available.

Se dispone de ejemplares de este manual en español.

NOTICE TO OWNER

You are requested to notify Vermeer Corporation when you have purchased a **used** Vermeer machine. Notify the Customer Data Department by telephone: 800-829-0051 or 641-628-3141; email: customerdata@vermeer.com; internet: www.vermeer.com or www.vermeerag.com; or letter: Customer Data Dept., Vermeer Corporation, PO Box 200, Pella IA 50219 USA. Upon request, an owner of a used Vermeer machine will receive one free set of Operator's, Maintenance and Parts manuals.



Orientation: Forward travel of this machine is away from the cutter wheel. Right and left sides are determined when facing in the direction of forward travel.

TRADEMARKS

VERMEER, VERMEER Logo, AUTOSWEEP, and YELLOW JACKET are trademarks of Vermeer Manufacturing Company. VANGUARD and BRIGGS & STRATTON are trademarks of Briggs and Stratton Corporation.

VERMEER NEW INDUSTRIAL EQUIPMENT LIMITED WARRANTY

(EFFECTIVE AUGUST 1, 2013)

WARRANTY PERIOD: 12 Months / 1000 Hours

Vermeer Corporation (hereinafter “Vermeer”) warrants each new Industrial product of Vermeer’s manufacture to be free from defects in material and workmanship, under normal use and service for one (1) full year after initial purchase/retail sale or 1000 operating hours, whichever occurs first. This Limited Warranty shall apply only to complete machines of Vermeer’s manufacture, parts are covered by a separate Limited Warranty. **EQUIPMENT AND ACCESSORIES NOT OF VERMEER’S MANUFACTURE ARE WARRANTED ONLY TO THE EXTENT OF THE ORIGINAL MANUFACTURER’S WARRANTY AND SUBJECT TO THEIR ALLOWANCE TO VERMEER ONLY IF FOUND DEFECTIVE BY SUCH MANUFACTURER.**

EXTENDED WARRANTY OPTIONS ARE AVAILABLE FOR PURCHASE WARRANTY TERMS During the Limited Warranty period specified above, any defect in material or workmanship in any warranted item of Vermeer Industrial Equipment not excluded below shall be repaired or replaced at Vermeer’s option without charge by any authorized independent Vermeer dealer. The warranty repair or replacement must be made by a Vermeer independent authorized dealer at the dealer’s location. Vermeer will pay for replacement parts and such authorized dealer’s labor in accordance with Vermeer’s labor reimbursement policy. Vermeer reserves the right to supply remanufactured replacement parts as it deems appropriate.

RETAIL PURCHASER RESPONSIBILITY: This Limited Warranty requires proper maintenance and periodic inspections of the Industrial Equipment as indicated in the Operator’s/Maintenance Manual furnished with each new Industrial Equipment. The cost of routine or required maintenance and services is the responsibility of the retail purchaser. The retail purchaser is required to keep documented evidence that these services were performed. This Vermeer New Industrial Equipment Limited Warranty may be subject to cancellation if the above requirements are not performed. Vermeer Industrial Equipment with known failed or defective parts must be immediately removed from service.

EXCLUSIONS AND LIMITATIONS

The warranties contained herein shall **NOT APPLY TO:**

- 1) Any defect which was caused (in Vermeer's sole judgment) by other than normal use and service of the Industrial Equipment, or by any of the following; (i) accident (ii) misuse or negligence (iii) overloading (iv) lack of reasonable and proper maintenance (v) improper repair or installation (vi) unsuitable storage (vii) non-Vermeer approved alteration or modification (viii) natural calamities (ix) vandalism (x) parts or accessories installed on Industrial Equipment which were not manufactured or installed by Vermeer authorized dealers (xi) the elements (xii) collision or other accident.
- (2) Any Industrial Equipment whose identification numbers or marks have been altered or removed or whose hour meter has been altered or tampered with.
- (3) Any Industrial Equipment which any of the required or recommended periodic inspection or services have been performed using parts not manufactured or supplied by Vermeer or meeting Vermeer Specifications including, but without limitation, engine tune-up parts, engine oil filters, air filters, hydraulic oil filters, and fuel filters.
- (4) New Industrial Equipment delivered to the retail purchaser in which the equipment/warranty registration has not been completed and returned to Vermeer within ten (10) days from the date of purchase.
- (5) Any defect which was caused (in Vermeer's sole judgment) by operation of the Industrial Equipment not abiding by standard operating procedures outlined in the Operator's Manual.
- (6) Engine, battery, and tire Limited Warranties and support are the responsibility of the respective product's manufacturer.
- (7) Transportation costs, if any, of transporting to the Vermeer dealer. Freight costs, if any, of transporting replacement parts to the Vermeer dealer.
- (8) The travel time of the Vermeer dealer's service personnel to make a repair on the retail purchaser's site or other location
- (9) In no event shall Vermeer's liability exceed the purchase price of the product,
- 10) Vermeer shall not be liable to any person under any circumstances for any incidental or consequential damages (including but not limited to, loss of profits, out of service time) occurring for any reason at any time.
- (11) Diagnostic and overtime labor premiums are not covered under this Limited Warranty Policy. Oils and fluids are not covered under this Limited Warranty.

- (12) Depreciation damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, lack of proper protection during storage.
- (13) Accessory systems and electronics not of Vermeer's manufacture are warranted only to the extent of such manufacturer's respective Limited Warranty if any.
- (14) Down hole toolage is not covered under this warranty.
- (15) Wear items which are listed by product group below:

ENVIRONMENTAL: Bearing Seals, Bearings, Belts, Brake Pads, Bolts/Torqued Parts, Chain, Clutches, Clutch Components, Curtains, Cutter Wheels, Discharge Conveyor Belts, Fuel Filters, Hammers, Hoses, Infeed Conveyor Belts, Infeed Conveyor Chains, Knives, Oil Filters, Pockets, Rods, Rollers, Rotor Plates, Screens, Service Items, Shear Bar/Bedknife, Sprockets, Teeth, Wear Blocks, Wear Strips, Tips, Tip Mounts, Track Chain, Track Rollers, Rubber Tracks, Rubber Grouser Bars, Rubber Track Bands, Track Sprockets, Track Pads, Winch Cable, Windshield Wiper Parts, Lights, Antenna.

TRACK: Base Plates, Boom Wear Items, Buckets, Cable Fingers, Conveyor Belts, Clutches, Cups, Digging Chain, Digging Rims, Drums, End Idler, Flashings, Pins and Bushings, Pivot Rings, Plastic Wear Strips, Rooter Bands, Scraper Knives, Sprockets, Teeth, Track Chain, Track Rollers, Trench Cleaner (Crumber), Trip Cleaners, Truck Rollers, Wear Plates.

TRENCHLESS: Brushes, Clamping Vise Parts, Dies, Drive Chuck, Earth Stakes, Fan Belts, Jaws, Leaf Chain, Lights On Light Kits, Packing Assemblies, Rod, Rod Loader Parts, Rollers, Tooling, Track Chain, Track Guides, Track Idlers, Track Pads, Track Sprockets, Valve Seats, Wear Bars, Wear Blocks, Water Hoses, Water Swivels, Wear Bars.

UTILITY PRODUCTS: Augers, Belts, Bearings, Booms, Brake Pads, Bucket, Bushings, Chains, Clutches, Conveyor Belts, End Rollers, Flashings, Pins, Pivot Rings, Plow Blades, Rubber Shielding, Sprockets, Teeth, Tires, Track Chain, Track Idlers, Track Sprockets, Trench Cleaner (Crumber).

PARTS WARRANTY:

Parts replaced in the warranty period will receive the balance of the first year New Industrial Equipment Limited Warranty, during the first (12) months or 1000 hours, whichever comes first. Replacement parts after the original machine warranty, are warranted to be free from defects of material for ninety (90) days or the part will be repaired or replaced, without labor coverage for removal and reinstallation.

EXCLUSIONS OF WARRANTIES: EXCEPT FOR THE WARRANTIES EXPRESSLY AND SPECIFICALLY MADE HEREIN, VERMEER MAKES NO OTHER WARRANTIES, AND ANY POSSIBLE LIABILITY OF VERMEER HEREINUNDER IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. VERMEER RESERVES THE RIGHT TO MODIFY, ALTER AND IMPROVE ANY PRODUCT WITHOUT INCURRING ANY OBLIGATION TO REPLACE ANY PRODUCT PREVIOUSLY SOLD WITH SUCH MODIFICATION. NO PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTY, OR TO ASSUME ANY ADDITIONAL OBLIGATION ON VERMEER'S BEHALF.

NO DEALER WARRANTY. The selling dealer makes no warranty of its own and the dealer has no authority to make any representation or promise on behalf of Vermeer or to modify the terms or limitations of this warranty in any way.

ELECTRONIC SIGNATURES. Each of the parties hereto expressly agrees to conduct transactions by electronic means. Accordingly, the parties agree and intend that all electronic transmissions including, without limitation, electronic signatures, shall be considered equivalent to an original writing as provided under Iowa law, as it may be amended from time to time.

**MANUFACTURED BY:
VERMEER CORPORATION
Pella, Iowa 50219 USA**

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Receiving and Delivery Report

DEALER PREP

Check or perform the following:

- ___ Check machine for shortage or damage in transit.

Engine

- ___ Check oil level of the engine, with engine level.
- ___ Check condition of the air cleaner.
- ___ Check electrolyte level of the battery.
- ___ Check engine for proper operation.

Hydraulics

- ___ Check level of the hydraulic fluid.
- ___ Check control levers for proper operation.
- ___ Check all hydraulic components for leaks or damage.

General

- ___ Check drive belts for proper tension.
- ___ Check ground drive chain for proper tension.
- ___ Check all shields for installation and condition.
- ___ Check machine for proper lubrication.
- ___ Check condition of all safety signs and decals.
- ___ Check all phases of operation.
- ___ Check for loose hardware.

- ___ Check protective curtains for installation and condition.
- ___ Check tires for proper air pressure: 50 psi (340 kPa)
- ___ Check cutter wheel Yellow Jacket pocket bolts for proper torque: 200–215 ft-lb (271–291 Nm).
- ___ Check that the neutral start function operates properly.
- ___ Check that Operator Presence system and indicator lights operate properly.

DELIVERY

Check and perform the following with the customer.

General

- ___ Review all sections of the *Operator's Manual*.
- ___ Grease or oil all lubrication points.

Review of Operation

Review and demonstrate with the customer the various aspects of stump cutter operation:

- ___ overall explanation of how the machine works
- ___ machine safety
- ___ preparing the machine for operation
- ___ operating the machine

DEALER/OWNER INFORMATION

dealer

owner

address

address

city

city

state / province

state / province

zip / postal code

zip / postal code

country

country

phone number

phone number

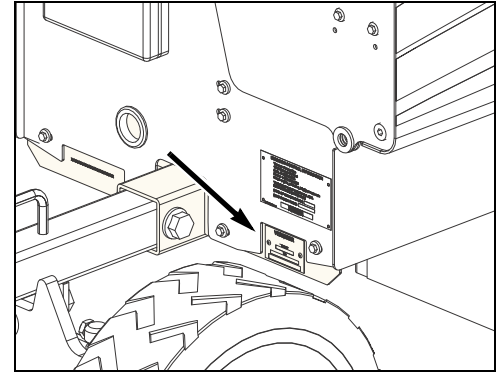
email address

email address

IDENTIFICATION NUMBERS - RECORD

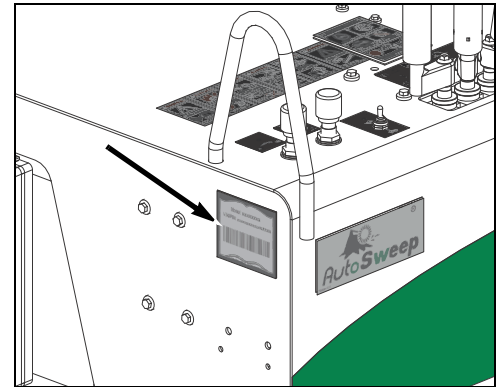
Machine Model Number _____

Machine Serial Number _____



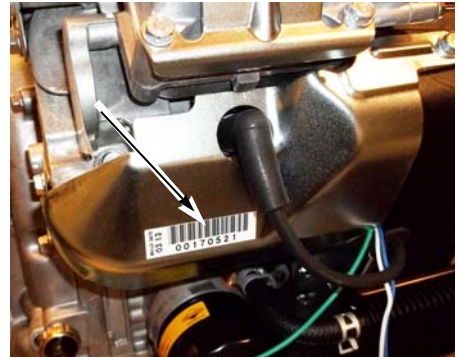
MACHINE IDENTIFICATION DECAL

This decal provides easy identification of the model and 17-digit identification number. The barcode contains the machine's VIN number and can be scanned with any barcode reading device.



Briggs and Stratton Engine Model Number <https://truckmanualshub.com/>

Briggs and Stratton Engine Serial Number _____



<https://truckmanualshub.com/>
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Section 10: Safety Messages

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

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

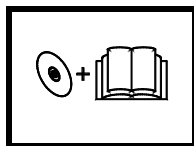
Safety signs with signal word “**DANGER**”, “**WARNING**”, or “**CAUTION**” are located near specific hazards.

DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

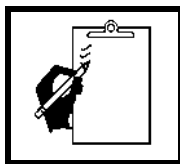
SAFETY SYMBOL EXPLANATION



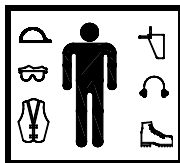
This is the safety alert symbol. This symbol is used in combination with an exclamation mark or other symbols to alert you to the potential for bodily injury or death.



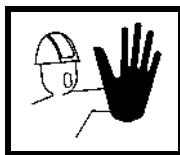
WARNING: Read *Operator's Manual* and safety signs, and watch the operations and safety video, before operating machine.



WARNING: Check machine before operating. Machine must be in good operating condition and all safety equipment installed and functioning properly.



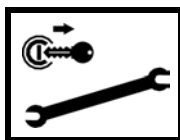
WARNING: Wear personal protective equipment. Dress properly. Refer to “Personal Protective Equipment,” [page 40-1](#).



WARNING: Keep spectators away.



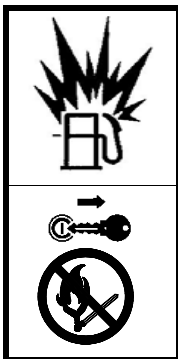
WARNING: Engine exhaust can asphyxiate. Operate only outdoors.



WARNING: Use Shutdown Procedure before servicing, cleaning, repairing or transporting machine. Follow [Shutdown Procedure](#), page [23-1](#).



WARNING: Pressurized fluid can penetrate body tissue and result in serious injury or death. Leaks can be invisible. Keep away from any suspected leak. Relieve pressure in the hydraulic system before searching for leaks, disconnecting hoses, or performing any other work on the system. If you must pressurize the system to find a suspected leak, use an object such as a piece of wood or cardboard rather than your hands. When loosening a fitting where some residual pressure may exist, slowly loosen the fitting until oil begins to leak. Wait for leaking to stop before disconnecting the fitting. Fluid injected under the skin must be removed immediately by a surgeon familiar with this type of injury.



WARNING: Fuel and fumes can explode and burn.

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



WARNING: Be sure that all safety devices, including shields, are installed and functioning properly after servicing the machine.



WARNING: Make no modifications to this equipment unless specifically recommended by Vermeer Corporation.



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 15: Intended Use

SC362 Intended Use

The Vermeer SC362 stump cutter is designed solely for use in removing tree stumps and roots to below ground level by cutting and grinding.

Always use the machine in accordance with the instructions contained in this Operator's Manual, safety signs on the machine, and other material provided by Vermeer Corporation.

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.

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Section 20: Machine Controls

ENGINE CONTROLS

(1) Ignition Switch

Vertical position engine off

1st position clockwise engine run

Fully clockwise engine start

(2) Throttle Control

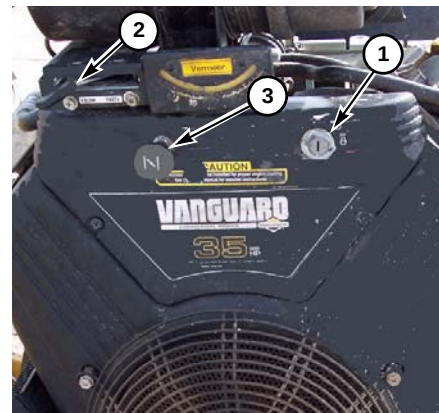
Push left increase RPM

Push right decrease RPM

(3) Choke Control

Pull out choke on

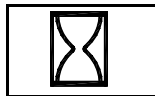
Push in choke off



ENGINE MONITORS

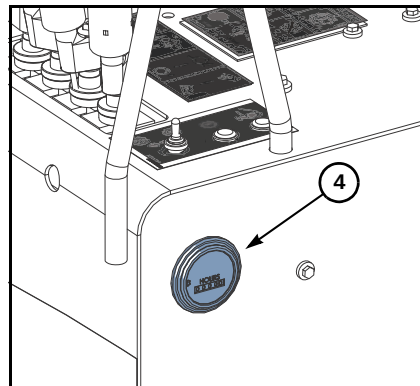
(4) Hourmeter

- Records total machine operation time.



(5) Engine Oil Pressure

- If oil pressure is low, engine will shut down.
- Refer to Engine Operation Manual.



GROUND DRIVE/CUTTER WHEEL CONTROLS

(1) Ground Drive/Operator Presence

Push reverse travel

Pull forward travel

(2) Cutter Wheel Height/Operator Presence

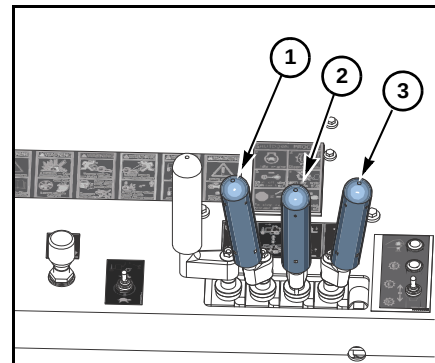
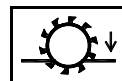
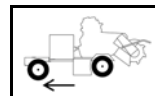
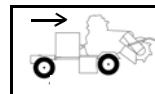
Push lower cutter wheel

Pull raise cutter wheel

(3) Cutter Wheel Swing/Operator Presence

Push cutter wheel swings away from operator

Pull cutter wheel swings toward operator

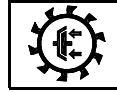


NOTICE: When equipped with an AutoSweep control system, the swing speed is controlled by it. The system monitors engine speed and adjusts hydraulic oil flow to the swing cylinders to maintain engine RPM in the operating range.

Cutter wheel drive will disengage and cutter wheel brake will engage if operator's hand is removed from all three levers. For more information, Refer to "Operator Presence System," [page 50-4](#).

(4) Cutter Wheel Boom Clutch Engage/Disengage Switch

Push up engage cutter wheel



Pull down disengage cutter wheel



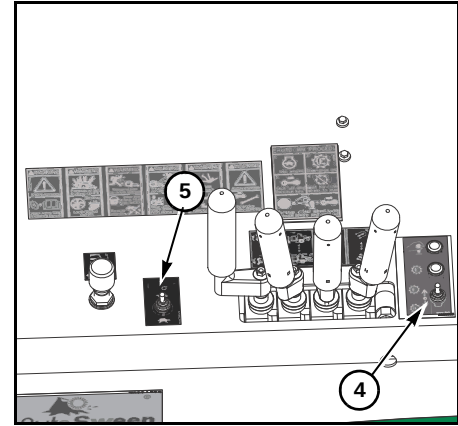
NOTICE: Operator must have at least one hand in contact with an operator presence sensing lever before engaging the cutter wheel. Refer to “Operator Presence System,” [page 50-4](#).

(5) 2-Speed Switch

Push up high speed



Pull down low speed



(6) Cutter Wheel Engaged Indicator

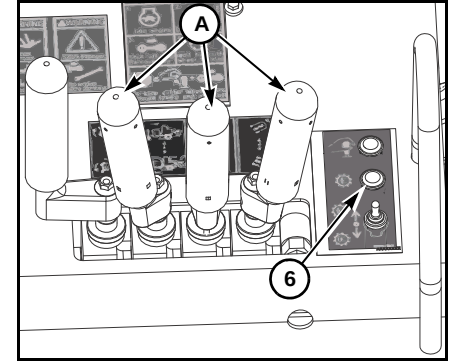
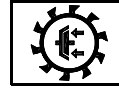
Solid green light comes on to indicate that cutter wheel clutch is engaged.

Green light blinks to indicate that cutter wheel has been disengaged by the Operator Presence system. Cutter wheel can be re-engaged by touching one of the three operator presence levers (**A**) while light is blinking.

Light goes out when cutter wheel is disengaged and must be re-engaged using the *Cutter Wheel Clutch Engage/Disengage Switch*.

NOTICE: Do not conclude that cutter wheel has stopped when indicator light is off. Cutter wheel will continue to rotate for a short time after cutter wheel drive has been disengaged and indicator light goes off. Before moving near cutter wheel, look to ensure rotation has stopped.

- Cutter wheel will not remain engaged if this light is disconnected or shorted to ground. Maintain light in good working condition. (Ignition switch must be in RUN position.)



(7) Operator Presence Light

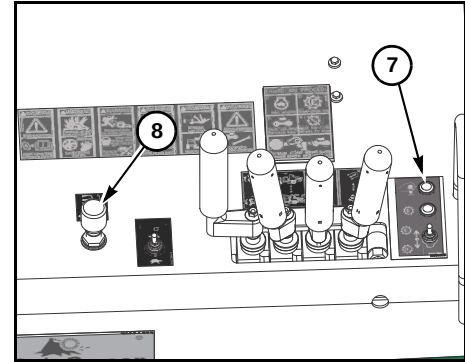
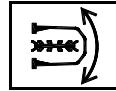
Solid green light comes on and remains lit as long as the operator maintains hand contact with at least one of the levers. The light goes off in 1/2 second when hand is not touching levers. (Ignition switch must be in RUN position.)

(8) Cutter Wheel Swing Speed Knob

(When not equipped with AutoSweep control system)

Clockwise increase speed

Counterclockwise decrease speed



GROUND DRIVE WHEEL LOCK

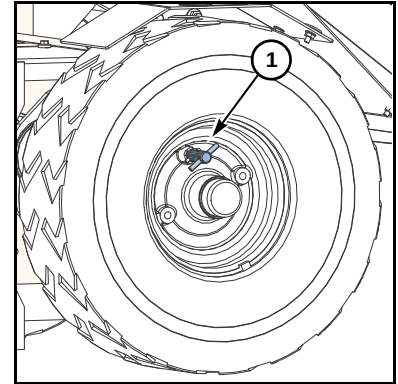
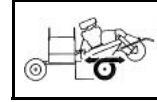
(1) Wheel Lock Pins (Each Side)

The position of the pins determines whether the machine will move when the *Ground Drive Lever* is pushed or pulled.

Position wheel lock pins in as shown to engage ground drive wheels.

Position wheel lock pins out as shown to disengage ground drive.

NOTICE: Never move machine with only one lock pin engaged unless machine is on smooth, level ground.

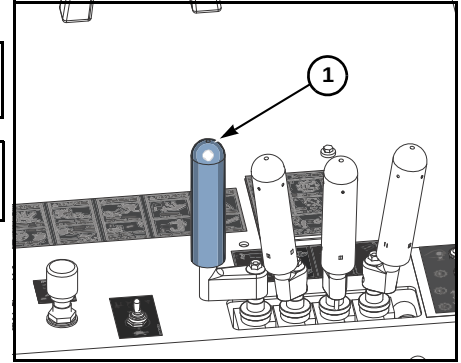
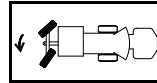
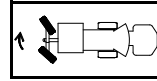


HYDRAULIC STEER

(1) Hydraulic Steer Lever

Push. turn right

Pull turn left



Section 22: Starting Procedure

STARTING THE ENGINE

Step 1: Ensure hands are not in contact with control levers (1).

NOTICE: In order for the Operator Presence system to function properly, the operator's hand should not be in contact with any of the control levers when starting the engine. If a control lever is touched as the ignition switch is turned from OFF to ON or START, operator presence will not be sensed and therefore cutter wheel will not operate.

- If the operator presence has not been sensed, the operator's hands must be removed from all control levers for at least a second. When the operator's hand is returned to a lever, operator presence will be sensed and the cutter wheel may be engaged.
- Refer to the Engine Operation Manual for more information.

Step 2: Place *Throttle Lever* (2) to fast position.

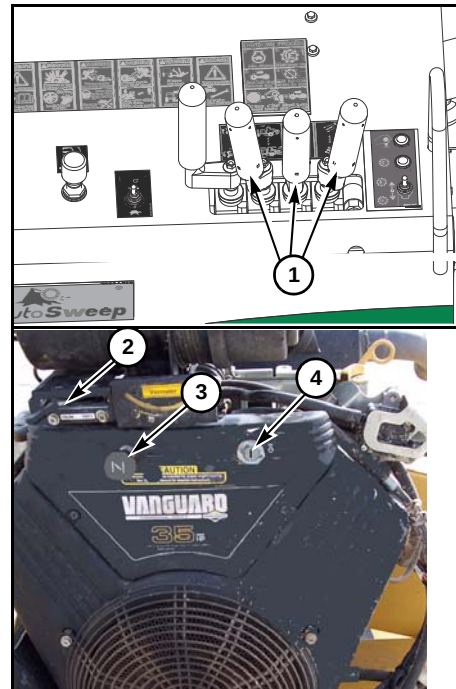
Step 3: Pull choke knob (3) to full choke position.

NOTICE: Never run starter motor for more than 5 seconds at a time. Allow it to cool 1 minute between starting cycles.

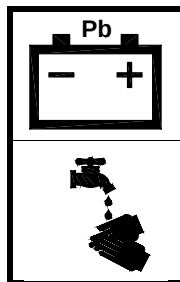
Step 4: Turn *Ignition Switch* (4) fully clockwise to START. Release switch as soon as the engine starts.

Step 5: As the engine warms up, move choke control in to run position.

Step 6: Adjust throttle (2) to get an even idle speed, and allow engine to warm up before engaging the cutter wheel.



JUMP-STARTING

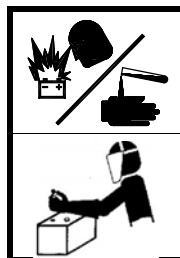


WARNING: Battery post, terminals, and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm.

Wash hands after handling.

Before jump-starting the machine, check that battery is not frozen or has a low electrolyte level. 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. Acid can blind and burn. Tools and cable clamps can make sparks.

Do not smoke. Shield eyes and face. Read instructions.

If equipped, ensure battery caps are in place and tight on both the machine battery and the booster battery to reduce risk of battery explosion.

NOTICE: The machine has a 12-volt starting system. Use only a 12-volt system for jump-starting.

Do not allow vehicle used to jump-start to be in contact with the disabled machine. Vehicles in contact have a ground connection which allows a spark to occur at the battery when positive jumper cable is connected or removed.

Battery Burns - Avoid

Battery contains sulfuric acid which may result in severe burns. Avoid contact with eyes, skin, and clothing.

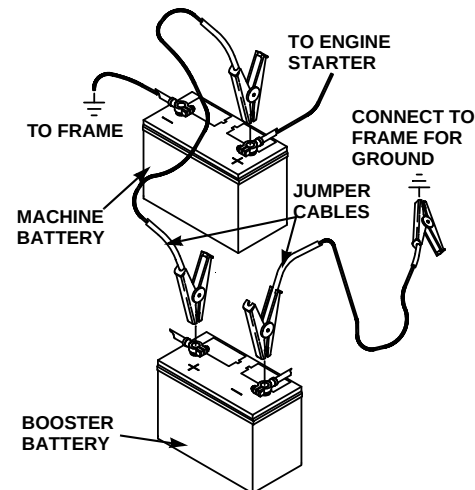
In case of acid contact:

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, beaten egg, 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 machine frame away from the battery, fuel and hydraulic lines, and moving parts. Do not attach to negative (-) terminal of discharged battery.
- Step 5:** Try starting the engine. Refer to “Starting the Engine,” [page 22-1](#).
- 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 Operation Manual).

In cold weather, the hydraulic oil will become thicker causing hydraulic functions to move slower until the oil is warmed.

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 Operation Manual section on cold weather starting for correct procedures. Refer to “Starting the Engine,” [page 22-1](#).

NOTICE: Reduce engine speed if hydraulic pump squeals. Pump squealing may indicate lack of oil which can damage the pump.

Section 23: Shutdown Procedure

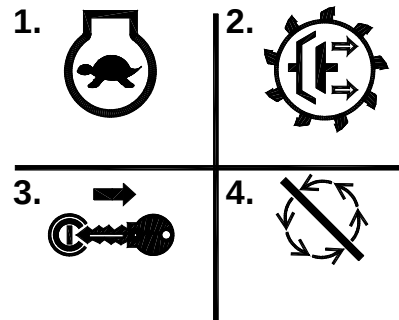
STOPPING THE MACHINE

For your safety and the safety of others, use the Shutdown Procedure before servicing, cleaning, unlogging, inspecting, or transporting the machine.

A variation of this procedure may be used if instructed within this manual or if an emergency requires it.

Step 1: Maintaining one hand on a control lever, move engine *Throttle Lever* to low idle.

Step 2: Release control levers, or press *Cutter Wheel Engage Switch* to disengage cutter wheel drive.



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

NOTICE: Whenever practical and consistent with good safety practice, run engine without load for a few minutes before shutting it off. This allows engine temperatures to decrease and equalize, which will increase engine life.

Step 3: Shut off engine and remove key.

Step 4: Wait for the cutter wheel to stop turning.

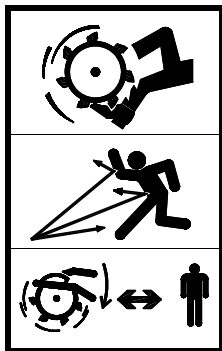
QUICK STOP PROCEDURE

Step 1: Release control levers to disengage and stop cutter wheel.

Step 2: Shut off engine and remove key.



Section 30: Transporting the Machine



DANGER: Contact with rotating cutter wheel will result in serious injury, dismemberment, or death.

Rotating cutter wheel can throw objects.

Keep guard down. Stay away.
Shut off power to cutter wheel before transporting machine.

DRIVING THE MACHINE



WARNING: Be alert, reduce engine speed, and use extreme caution when operating or driving machines on hillsides or near ditches, gullies, holes, or obstructions where rollover could occur.

NOTICE: Until the operator has become familiar with the controls and understands the capability of the machine, use a slower engine speed and LOW ground drive speed when operating ground drive controls. Survey the area around the machine for persons or obstacles before driving or moving machine.

LOADING MACHINE ONTO TRUCK BED OR GENERAL PURPOSE UTILITY TRAILER



WARNING: Machine can slide off trailer deck. Crushing injury or death can result if struck or crushed by machine. Take precautions listed below:

- (1) Ensure gross weight of the machine is within the weight limits of the trailer and towing vehicle.
- (2) Block wheels or engage park brake of towing vehicle. Load and unload machine on level ground with the trailer hitched to the towing vehicle.
- (3) Do not load if trailer bed is slippery.
- (4) Ensure you are qualified to operate the machine.
- (5) Ensure both ground drive lock pins are engaged
- (6) Slowly load and unload machine from the trailer.



WARNING: Obey all applicable laws regarding the use of lights and other possible requirements concerning road use.



WARNING: Before transporting machine on truck or trailer, read the truck or trailer manual for safety precautions and information. Be sure the trailer bed and ramps are free of obstacles and lubricants that will interfere with the loading process.



WARNING: Before transporting machine on truck or trailer, read the truck or trailer manual for safety precautions and information.



WARNING: Machine may slide down loading ramp or off trailer deck. Serious injury or death may result. Do not load onto slick trailer surface.



WARNING: Ensure gross weight of machine is within gross weight limits of trailer and towing vehicle.



WARNING: Rollover can crush. Drive machine on and off the trailer squarely to avoid driving off the side of the trailer and causing possible rollover. Do not ride on machine.

Load and unload machine on level service with trailer attached to towing vehicle. Use caution when going up or down trailer ramps.

The stump cutter weight is listed in specifications. (Refer to the [Specifications](#) section of the [Maintenance Manual](#)).

To load the machine:

NOTICE: Both ground drive wheel lock pins must be engaged to keep stump cutter from turning when climbing loading ramps.

- Step 1:** Start engine.
- Step 2:** Raise and center cutter wheel.
- Step 3:** Drive machine onto truck or trailer.
- Step 4:** Position centerline of machine with centerline of the trailer. Drive machine squarely onto the trailer. Stop machine when tie-down position is reached. The tie-down position distributes the weight on the trailer as recommended by the trailer manufacturer.
- Step 5:** Shut off engine and remove key.

NOTICE: Do not use the axle as a tie-down point.

Step 6: Tie down machine securely using:

- front tie down loop (1)
- rear tie down loops (2)

To unload the machine:

NOTICE: Before unloading machine, both ground drive wheel lock pins must be engaged to prevent machine runaway and keep stump cutter from turning when descending ramps.

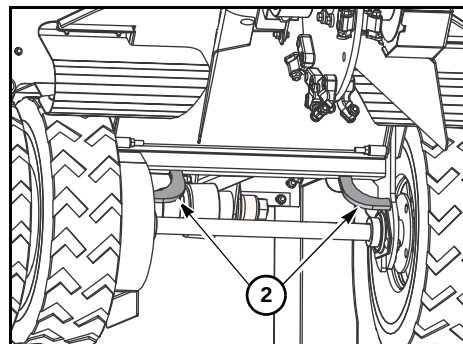
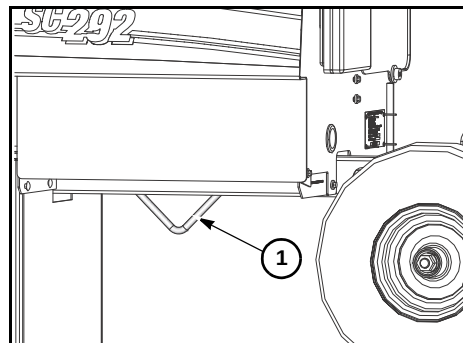
Step 1: Place trailer on a level surface. Unload machine only when trailer is attached to a tow vehicle.

Step 2: Remove tie-downs.

Step 3: Refer to “Starting Procedure,” [page 22-1](#).

Step 4: Raise and center cutter wheel.

Step 5: Drive machine squarely off the truck or trailer.



MACHINE - CLEAN BEFORE TRANSPORTING

NOTICE: Machine controls and electrical/electronic devices are not rated to withstand high pressure water and temperature power washers. Water intrusion will likely cause malfunction or damage to any devices hit directly by the water spray. Keep pressure washer stream away from machine controls and electrical/electronic devices. Compressed air can also push moisture through some connector and component seals. Do not point air nozzle directly at seal areas.

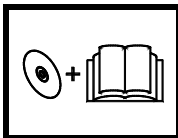
Clean machine to keep debris off road and from striking other vehicles during transport.

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Section 40: Preparing the Machine and Work Area

OPERATOR QUALIFICATIONS



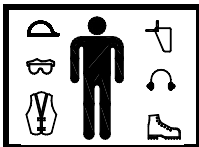
WARNING: Read Operator's Manual and safety signs, and watch the operations and safety video, before operating machine.

Allow only responsible, properly instructed individuals to operate machine.

Become familiar with the controls, 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

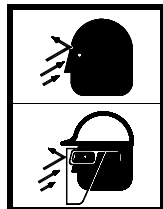


WARNING: Wear personal protective equipment. Wear close-fitting clothing and confine long hair. Avoid jewelry, such as rings, wristwatches, necklaces, or bracelets.

Operating the machine will require you to wear protective equipment. You should always wear a hard hat, safety shoes, hearing protectors, and eye and face protection. If working near traffic, wear reflective clothing.

Hearing protection is recommended when operating the machine. Hearing protection devices provide differing levels of sound reduction. It is important to select a device that is adequate 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, enlist the help of your local environmental noise specialist.

- Eye protection must consist of wraparound safety glasses or goggles and a full face shield.



WARNING: Thrown material can result in eye and face injuries.

Use eye and face protection.

NOTICE: Face shields must meet ANSI Standard Z87.1 - 2010 and must be marked 'Z87+'. Face shields are available from various sources, including your local Vermeer dealer.

- Other workers in the immediate area must also wear hard hats, hearing, and eye protection.
- Wear close-fitting clothing and confine long hair.
- Avoid wearing jewelry, such as rings, wristwatches, necklaces, or bracelets.
- Allow only responsible, properly instructed individuals to operate and service machine.

Sound Levels

Sound pressure and sound power levels were determined according to test procedures specified in ISO 11201 and ISO 3744. Data applies to machine with 35 HP Briggs & Stratton Vanguard 610000 engine.

Equivalent Continuous A-Weighted Sound Pressure Level

at Operator's Ear as specified by ISO 11201 95.4 dB(A).

Exterior Sound Power Level as determined by ISO 3744 105.5 dB(A).



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

Vibration Levels

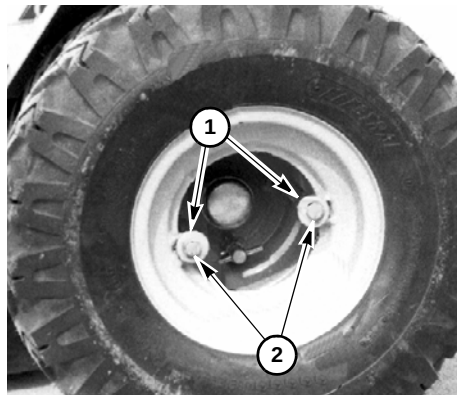
Hand-Arm vibration exposure has been measured according to test procedures specified in ISO 5349. The level is less than 2.5 m/s².

PREPARE MACHINE

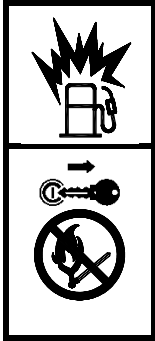
Dual Wheels - Install/Remove

To install and remove:

- Step 1:** Raise machine up until tire is 2" (5 cm) off the ground.
- Step 2:** Line notch in dual tire rim up with key on machine tire rim.
- Step 3:** Install washers (1) and 3/8 x 8" bolts (2). Tighten to 120 in-lb (13.5 Nm).
- Step 4:** Reverse Steps 1–3 to remove duals.



Fuel Tank - Fill

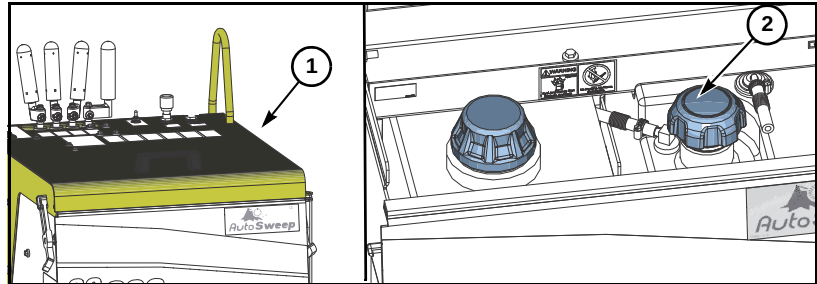


WARNING: Fuel and fumes can explode and burn.

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

Fill fuel tank at the end of each day with unleaded gasoline to prevent condensation. (90% unleaded is acceptable, refer to Engine Operation Manual.) Do not fill tank to the very top, leave room for expansion.

Open service access hood (1) and remove gas fill cap (2) to fill tank.



Hydraulic Fluid Level - Check

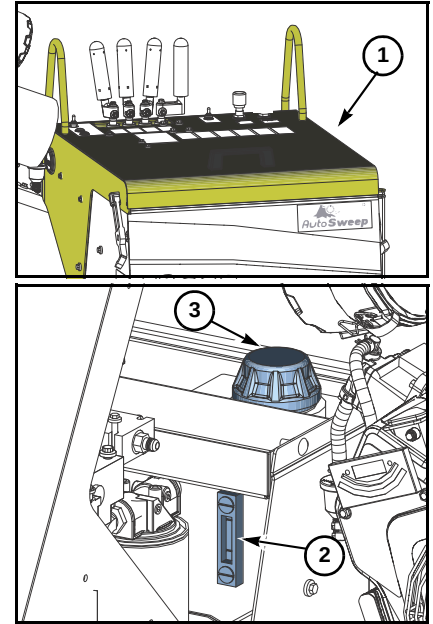
NOTICE: Clean hydraulic fluid is very important. Do not spill dirt or other contaminants into the tank. Filter all hydraulic fluid through a 10-micron filter before adding it to the tank.

Step 1: Open service access hood (1) and check hydraulic fluid at sight gauge (2).

Step 2: If needed, remove hydraulic fill cap (3) add fluid to the to upper mark of sight gauge (2). (Refer to the [Specifications](#) section of the [Maintenance Manual](#)).

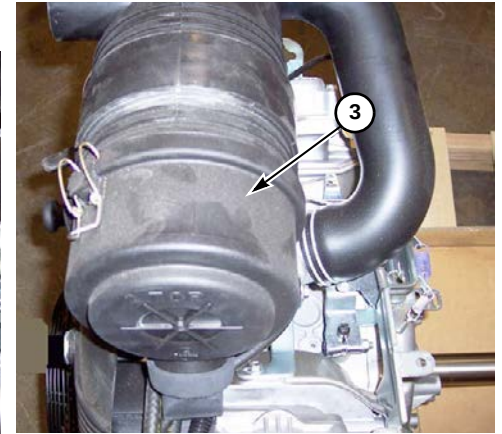
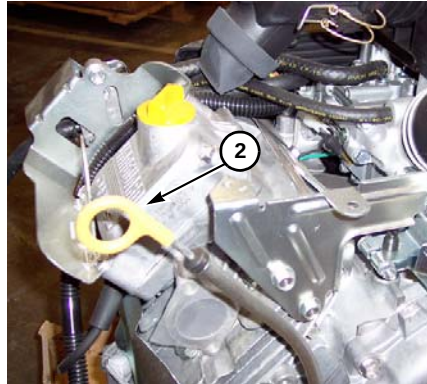
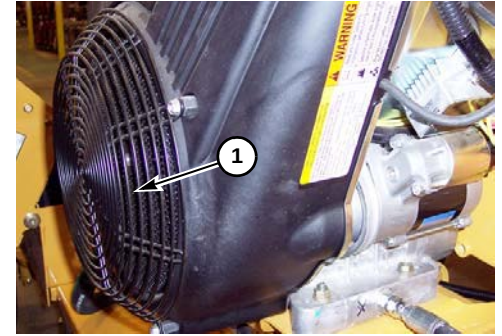
NOTICE: The hydraulic fluid must be free of bubbles. Bubbles are trapped air that is entering the hydraulic system.

Step 3: Install fill cap (3).



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 crankcase oil level (2). With engine level, fill to, but not above, the upper dipstick markings. 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.



Air Cleaner Restriction Indicator - Check

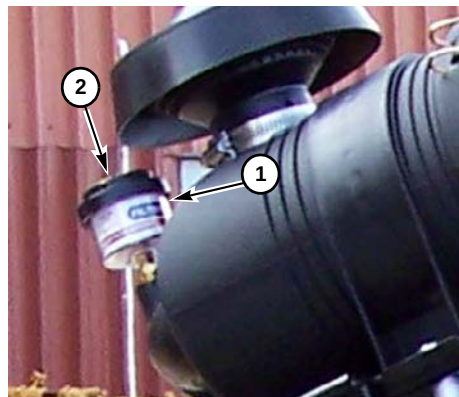
When yellow indicator becomes visible on air cleaner restriction indicator (1), **air cleaner element must be replaced**. Push button (2) to reset indicator.

- **DO NOT** remove element until indicator reaches red area.
- **DO NOT** wash or blowout element; **it must be replaced**.

Refer to “Air Cleaner Element - Replace” in the [Maintenance - 100 Service Hours](#) section of the [Maintenance Manual](#), for replacement instructions.

NOTICE: Air restriction indicator will not function correctly if:

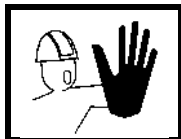
- Element is damaged or not seated properly in housing.
- Air cleaner element body is damaged. If so, unfiltered air may enter engine.
- Air transfer duct between air cleaner and engine is damaged, or clamps are loose.
- Air duct between air cleaner and restriction indicator is damaged or pinched.



PREPARE WORK AREA

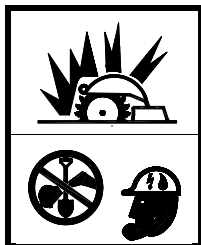


WARNING: Before starting machine, remove loose chunks of wood, secondary growth, stones, wire, and other debris from stump and work area. Do not cross cut exposed surface roots. The cutter wheel may grab a cut length of root and throw it toward the operator.



WARNING: Keep spectators away.

UNDERGROUND UTILITY CONTACT



WARNING: Electricity or gas explosion can kill. Laser light in cut cable can result in eye damage.

Locate utilities before cutting or grinding. Call 811 (U.S. only) or 1-888-258-0808 (U.S. or Canada) or local utility companies or national regulating authority.

Before you start any digging project, do not forget to call the local One-Call system in your area and any utility company that does not subscribe to One-Call system. For areas not represented by One-Call Systems International, contact the appropriate utility companies or national regulating authority to locate and mark the underground installations. If you do not call, you may have an accident or suffer injuries; cause interruption of services; damage the environment; or, experience job delays.

The One-Call representative will notify participating utility companies of your proposed digging activities. If you are in the U.S. or Canada and do not know the number for the local One-Call representative in your area, you can dial the North American One-Call number 811 or 1-888-258-0808 for this information. Utilities will then mark their underground facilities by using the following international marking codes:

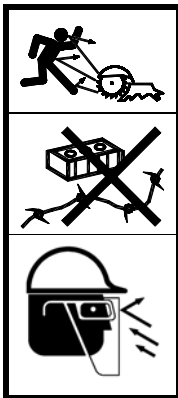
Red	Electric	Green/Brown	Sewer
Yellow	Gas, Oil or Petroleum	White	Proposed Excavation
Orange	Communications, Telephone, TV	Pink	Surveying
Blue	Potable Water		

OSHA CFR 29 1926.651 requires that the estimated location of underground utilities be determined before beginning the excavation or underground operation. When the actual excavation approaches an estimated utility location, the exact location of the underground installation must be determined by a safe, acceptable and dependable method. If the utility cannot be precisely located, it must be shut off by the utility company.

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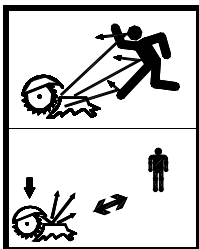
Section 50: Operating the Machine



WARNING: Thrown objects from rotating cutter wheel can injure the operator.

Remove loose chunks of wood, secondary growth, stones, wire, and other debris from stump and work area.

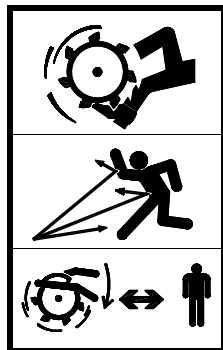
Wear hard hat, eye protection, and face shield.



WARNING: Thrown objects from rotating cutter wheel can injure others.

Keep cutter wheel down and spectators away.
Shut off power to cutter wheel before transporting machine.

CUTTER WHEEL GUARD



DANGER: Contact with rotating cutter wheel will result in serious injury, dismemberment, or death.

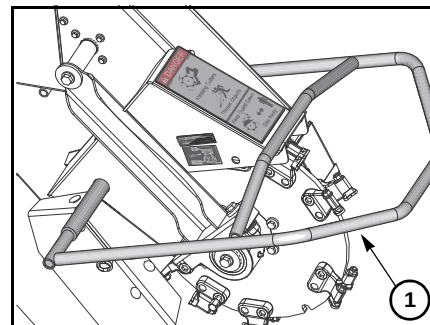
Rotating cutter wheel can throw objects.

Keep guard down. Stay away.

Shut off power to cutter wheel before transporting machine.

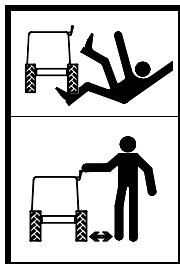
The cutter wheel guard (1) helps keep you away from the rotating cutter wheel. However, the most effective protection from injury is to stay away from the cutter wheel when it is turning.

The cutter wheel guard pivots to allow it to float over obstructions. Never secure guard in the raised position while cutting a stump.



WARNING: Never work on or near the cutter wheel unless the engine is shut off and the cutter wheel stopped.

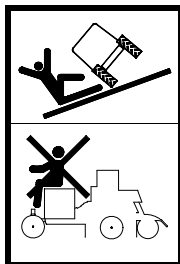
RUNOVER/ROLLOVER PREVENTION



WARNING: Machine runover can crush resulting in serious injury or death.

Keep operator's feet away when operating machine ground drive.

- Keep feet clear of tires. Stand or walk at a maximum comfortable distance from the machine while operating the controls.
- Never operate machine faster than you can comfortably walk. Use a slower speed on uneven ground or rough terrain.
- Be alert and use extreme caution when operating on hillsides, or near ditches, gullies, or obstructions where rollover could occur.
- If machine must be transported across a slope where sideways rollover is possible, operate in a direction which places the operator on the uphill side of the machine.
- Never ride on machine when operating ground drive system.
- Never attempt to manually move the stump cutter on sloped or uneven ground with the wheel lock pins disengaged. Loss of control may result.



WARNING: Machine rollover can crush, resulting in serious injury or death.

Do not ride on machine when operating ground drive system.

OPERATOR PRESENCE SYSTEM

The machine is equipped with an Operator Presence system that will disengage the cutter wheel drive and engage the cutter wheel brake if the operator's hand is not present on at least one of the three control levers (1).

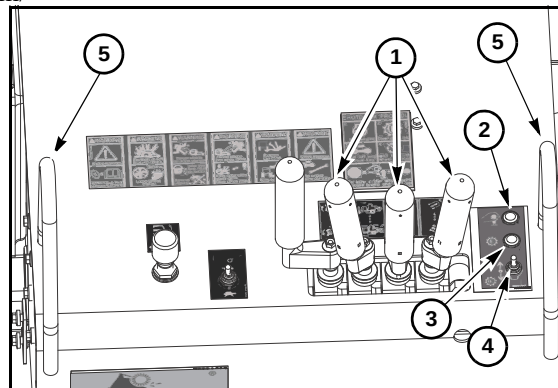
Green *Operator Presence Indicator Light* (2) on the operator station comes on and remains lit as long as the operator maintains hand contact with at least one of the levers. The light goes off in 1/2 second when a hand is not touching a lever (1).

The operator can move hands from one lever (1) to another within 1/2 second without interrupting machine operation.

At full operating speed, the Cutter Wheel Drive will disengage and the Cutter Wheel Brake will engage after releasing the handles; and the *Cutter Wheel Engaged Indicator Light* (3) will start flashing. If hand contact is made with any control lever (1) while the *Cutter Wheel Engaged Indicator Light* is still flashing, the Cutter Wheel Drive will automatically re-engage, the Cutter Wheel Brake will disengage, and the indicator light will stop flashing and remain lit. When cutter wheel engagement indicator light has stopped flashing and hand contact is not made with any control levers the *Cutter Wheel Drive Switch* (4) must be re-engaged. Always reduce engine speed before restarting the cutter wheel.

Bars (5) surrounding the levers guard against ground vegetation or tree limbs that may come in contact with the levers, simulating operator presence. When stepping away from the machine, ensure that no vegetation or other objects are in contact with the levers.

The Operator Presence system is intended to help protect the operator and must be maintained in good working condition. Refer to "Operator Presence System - Check/Service" in the [Maintenance - 100 Service Hours](#) section of the [Maintenance Manual](#), for procedures to test and maintain this system.



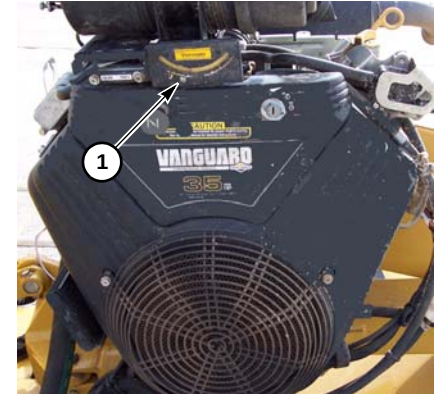
Engine Operating Angle

NOTE: Engine operating angles do not indicate safe machine operating angles.

Check engine operating angle gauge (1) to ensure engine is operating within allowable angle limits.

The engine may run continuously up to 25°. The marginal zone is 25–30°. If the engine is operated in the marginal zone for more than three minutes, or outside acceptable angle limits, engine damage may result.

The boom angle should be adjusted or the machine repositioned to reduce engine operating angle.



CUTTING STUMPS

Step 1: Refer to “Starting Procedure,” [page 22-1](#).

NOTICE: Engage and disengage cutter wheel only with engine at idle.

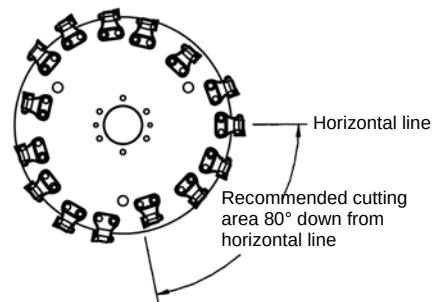
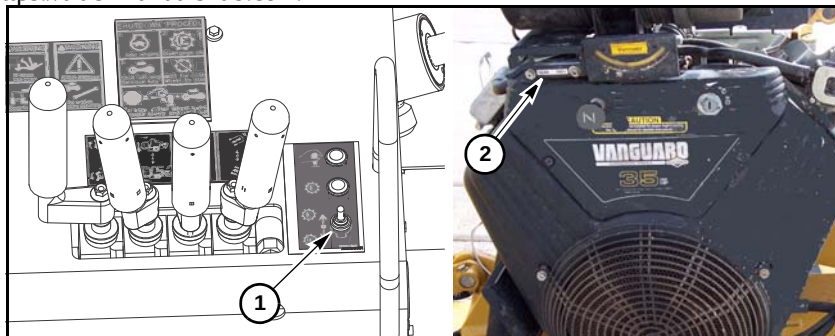
Step 2: Place one hand on any of the three control levers.

Step 3: Push *Cutter Wheel Control Switch (1)* to engage the cutter wheel.

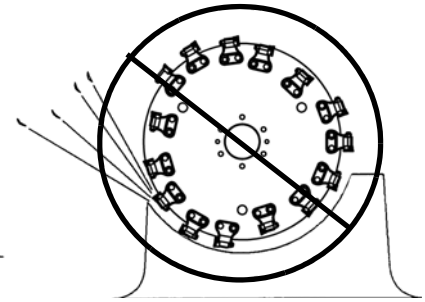
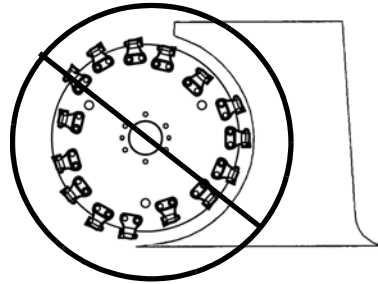
- With engine at idle, engage the cutter wheel.

Step 4: With other hand, push *Throttle Control Lever (2)* to maximum engine RPM.

NOTICE: Cut stump using only the recommended cutting area.

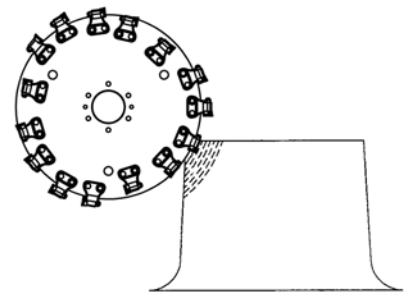


- Never undercut stump. Undercutting can cause violent kickback and component damage (see near right illustration).
- Never cut stump from the top. The cutter teeth will throw chips and debris up and toward the operator (see far right illustration).



Step 5: Position cutter wheel as shown.

Step 6: Use *Cutter Wheel Swing Control Lever* to make a light cut through the stump.



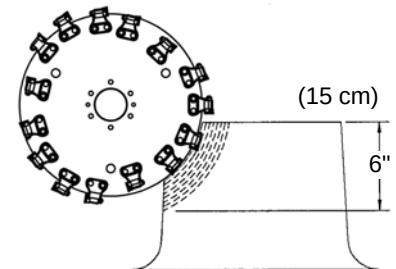
Step 7: With the cutter wheel to the side of the stump, lower cutter wheel and make a deeper cut as shown.

- The size and speed of cut depends on the hardness of the wood.

Step 8: Repeat previous step until you have cut approximately 6" (15 cm) of the stump.

If equipped with optional AutoSweep control system:

When *Cutter Wheel Swing Control Lever* is actuated, the AutoSweep control system monitors engine speed and adjusts swing speed by varying hydraulic oil flow to the swing system to maintain engine RPM in the operating range.



Step 9: Raise cutter wheel and use *Propel Lever* to move machine 4–6" (10–15 cm) farther into the stump.

Step 10: Repeat previous cutting procedures.

If maximum swing will not completely remove the stump:

Step 1: Maintain one hand on a control lever. Lower engine speed to idle.

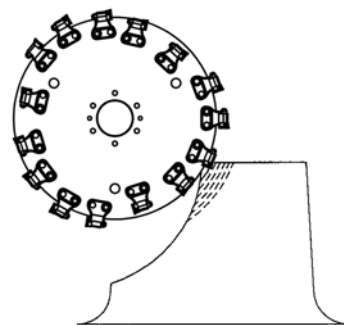
Step 2: Disengage cutter wheel.

Step 3: Fully raise cutter wheel.

Step 4: Wait for cutter wheel to quit turning.

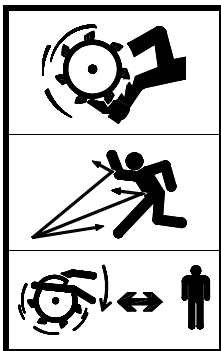
Step 5: Reposition machine.

Step 6: Repeat previous procedures for cutting the stump.



WARNING: Do not cross cut exposed surface roots. The cutter wheel may grab a cut length of root and throw the root toward the operator.

REMOVING CHIPS



DANGER: Contact with rotating cutter wheel will result in serious injury, dismemberment, or death.

Rotating cutter wheel can throw objects.

Keep guard down.
Stay away.

If chip buildup interferes with machine operation:

- Step 1:** Move machine away from the stump.
- Step 2:** Ensure no vegetation is in contact with machine control levers.
- Step 3:** Follow [Shutdown Procedure](#), page [23-1](#).
- Step 4:** Clear chips with a rake or shovel.
- Step 5:** Move machine back into position.

When the cutting operation is complete, shut down machine. Follow [Shutdown Procedure](#), page [23-1](#).

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Section 60: Maintenance Intervals



WARNING: Use Shutdown Procedure before servicing, cleaning, repairing, or transporting machine. Follow [Shutdown Procedure](#), page 23-1.

Visually inspect machine daily before starting the machine.

Make no modifications to your equipment unless specifically recommended by Vermeer Corporation.

SAFETY SIGNS

Safety signs located on your machine contain important and useful information that will help you operate your equipment safely. Refer to the [Parts Manual](#). Refer to “Machine Controls,” [page 20-1](#).

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

- Keep safety signs clean. Use soap and water - not mineral spirits, abrasive cleaners, or other similar cleaners that will damage the sign.
- Replace any damaged or missing safety signs. When attaching signs, the temperature of the mounting surface must be at least 40°F (5°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 Vermeer equipment dealer.

HOURLY METER - CHECK FOR MAINTENANCE INTERVAL

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

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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 it is shut down for the day. This protects metal under seals from corrosion caused by condensation as temperature drops.

Ensure all fittings and nozzle of grease applicator are clean before applying grease. If any grease fittings are missing, replace them immediately.

MAINTENANCE INTERVALS

Initial = Initial maintenance on new machine. Regular maintenance interval may be different.

- = Regular maintenance interval.

For Vermeer part numbers, consults your [Parts Manual](#).

Service	Maintenance Interval - Service Hours						
	5	10	50	100	250	500	As Required
Engine Oil and Filter- Change/Replace	Initial						
Cutter Wheel Shaft Belt Tension - Initial Check/Adjust	Initial						
Jackshaft Belts Tension - Initial Check	Initial						
Hydraulic Pump Belt Tension - Initial Check/Adjust	Initial						
Engine Oil - Check		●					
Fuel Tank - Fill (Or As Required)		●					
Engine System - Check		●					
Air Cleaner Restriction Indicator - Check		●					
Hydraulic Fluid Level - Check		●					

Service	Maintenance Interval - Service Hours						
	5	10	50	100	250	500	As Required
Cutter Wheel Drive System - Check		●					
Boom Swing Pivot - Grease		●					
Boomhead Pivot - Grease		●					
Cutter Wheel Bearings - Grease		●					
Hydraulic Steering Assembly - Grease		●					
Tires and Rims check		●					
Hydraulic Fluid Filter - Replace			Initial				
Cutter Wheel Belt Tension - Check/Adjust			●				
Engine Mounts - Check			●				
Jackshaft Belts Tension - Check/Adjust			●				
Hydraulic Pump Belt Tension - Check/Adjust			●				
Ground Drive Chain - Oil			●				
Cutter Wheel Guard Pivot - Oil			●				
Ground Drive Chain Tension - Check/Adjust			●				
Cutter Wheel Belt Door - Clean Debris			●				
Machine Structure & Hardware - Check/Inspect			●				
Tire Pressure Check			●				
Engine Oil/Filter- Change/Replace				●			
Controls - Check				●			
Spark Plugs Condition - Check				●			
Engine Cooling Areas - Clean				●			
Hydraulic System - Check				●			
Overall Machine - Check				●			
Safety Signs - Maintain				●			

Service	Maintenance Interval - Service Hours						
	5	10	50	100	250	500	As Required
Operator Presence System - Check/Service				●			
Tire Lug Nuts - Check				●			
Cutter Drive Brake - Check/Adjust				●			
Hydraulic Fluid Filter - Replace					●		
Wheel Bearings - Check/Repack					●		
In-Line Fuel Filter - Replace					●		
Valve Clearance - Check					●		
Oil Cooler Fins - Clean					●		
Air Cleaner System - Check					●		
Fuel Line - Check/Replace						●	
Hydraulic Fluid - Change						●	
Hydraulic Fluid Strainer - Inspect/Clean						●	
Battery Electrolyte Level and Terminals - Check/Clean						●	
Cutter Wheel Belt - Replace						●	
Jackshaft Belts - Replace						●	
Hydraulic Pump Belt - Replace						●	
Spark Plug - Replace							
Engine System - Check							●
Air Cleaner Elements/ Replace							●
Cutter Wheel Guard Pivot - Lubricate							●
Battery - Replace							●
Fuel Tank - Fill							●
Cutter Wheel Belt - Replace							●
Jackshaft Belts - Replace							●

Service	Maintenance Interval - Service Hours						
	5	10	50	100	250	500	As Required
Hydraulic Pump Belt - Replace							●
Cutter Teeth - Replace							●
Containment Curtains - Replace							●
Machine - Store							●

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Revision History

Revision	Date	Pages	Description
o1_00	12/13	ALL	1st Edition Operators Manual Released.



WARNING

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