

Operator's Manual

ED202

Edger





500 Venture Drive
Orrville, OH 44667
www.ventrac.com

To the Owner Contact Information and Product Identification

If you need to contact an authorized Ventrac dealer for information on servicing your product, always provide the product model and serial numbers.

Please fill in the following information for future reference. See the picture(s) below to find the location of the identification numbers. Record them in the spaces provided.

Dealer _____ Date of Purchase: _____

Dealer Address: _____

Dealer Phone Number: _____ Dealer Fax Number: _____

With your mobile device, you can scan the QR code on the serial number plate to access manuals, warranty, and other product information.



Model # _____

Serial # _____



Venture Products Inc. reserves the right to make changes in design or specifications without obligation to make like changes on previously manufactured products.

TABLE OF CONTENTS

INTRODUCTION	PAGE 4
Product Description	4
Why Do I Need an Operator’s Manual?	4
Using Your Manual	5
Manual Glossary	5
SAFETY	PAGE 6
General Safety Procedures	6
Training Required	6
Requirements for Personal Protective Equipment (PPE)	6
Operation Safety.	6
Keep Riders Off	8
Operating On Slopes	8
Truck Or Trailer Transport	9
Maintenance	9
Fuel Safety	10
Hydraulic Safety	11
Safety Decals.	13
EDGER SETUP AND CONFIGURATION	PAGE 15
Edger Configurations	15
Normal Edging Setup (Disc Concave Facing Toward the Frame).	15
Bed Shaping Setup (Disc Concave Facing Away From the Frame)	15
Disc Position Setup	16
Disc Edger Extension	17
Setup for Left Side Operation	17
GENERAL OPERATION	PAGE 18
Daily Inspection	18
Attaching	18
Detaching.	18
Operating Procedure	19
Transport of the Attachment.	19
Edger Disc Angle Adjustment	19
Edger Cutting Depth Adjustment	20
Discharge Direction Adjustment for Optional Blower Fan	20
SERVICE	PAGE 21
Cleaning and General Maintenance.	21
Lubrication Locations	21
Tire Pressure	21
Belt Inspection (Optional Blower Kit)	21
Attachment Drive Belt Replacement	21
Fan Drive Belt Replacement	22
Storage	22
Maintenance Schedule	23
Maintenance Checklist	23
SPECIFICATIONS	PAGE 24
Dimensions.	24
Features.	24

INTRODUCTION



Ventrac Products Inc. is pleased to provide you with your new Ventrac ED202 edger! We hope that Ventrac equipment will provide you with a ONE Tractor Solution.

Please visit our website, or contact your authorized Ventrac dealer for a complete list of items available for your new ED202 edger.

	Item Description	Part Number
Accessories	Blower Kit (4000 series power units only)	70.8020
	Ventrac Weight (maximum of three)	47.0115
	Flat Free Tire/Wheel Assembly	53.0214

Product Description

The Ventrac ED202 edger is designed for the sole purpose of edging along sidewalks, curbs, and cart paths, as well as edging and maintaining flower and mulch beds. Edging can be done on either the right or left side of the power unit per the operator's choice. The cutting disc can be reversed for bed shaping.

The multi-position swivel wheel can be adjusted to various heights to follow a variety of terrain.

For edging in hard ground, three 19 kg (42 pound) weights may be added to the weight bar on the disc guard.

For maximum productivity and performance, a bidirectional blower can be added when using the edger with a 4000 series power unit. This allows the operator to edge and blow debris from the area being edged in one efficient pass. The blower has multiple positions including right, left, or down which adds to its versatility.

Why Do I Need an Operator's Manual?

This manual has been created to help you gain the important knowledge of what is needed to safely operate and maintain your machine, and to avoid injury and product damage. It is divided into chapters for convenient reference of the appropriate information.

You must read and understand the operator's manual for each piece of Ventrac equipment you own. Reading the operator's manual will help you become familiar with each specific piece of equipment. If this manual becomes damaged or unreadable, it should be replaced immediately. Contact your local Ventrac dealer for a replacement.

When using a Ventrac attachment, be sure to read and follow the safety and operating instructions of both the power unit and the attachment being used to ensure the safest operation possible.

The information in this manual provides the operator with the safest procedures to operate the machine while getting the maximum use out of the unit. Failure to follow the safety precautions listed in this manual may result in personal injury and/or damage to the equipment.

INTRODUCTION

Using Your Manual

This manual identifies potential hazards and safety concerns to help you, as well as others, avoid personal injury and/or damage to the equipment.

Safety should always be the first priority when working on or operating equipment. Accidents are more likely to occur when proper operating procedures are not followed or inexperienced operators are involved.

SYMBOL DEFINITIONS



This symbol identifies potential health and safety hazards. It marks safety precautions. Your safety and the safety of others is involved.

There are three signal words that describe the level of safety concern: Danger, Warning, and Caution.

SIGNAL WORD DEFINITIONS

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme cases.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage. It may also be used to alert against unsafe practices.

This manual also uses two words to highlight information. **ATTENTION** calls attention to special mechanical information to prevent equipment damage and/or best practices for equipment service and care.

NOTE emphasizes general information that is worthy of special attention.

Note: Right-Hand and Left-Hand orientations may be referred to at different places throughout this manual. Right-Hand and Left-Hand is determined as if facing forward from the operator station.

Manual Glossary

- Power Unit** A Ventrac tractor or other Ventrac engine powered device that may be operated by itself or with an attachment or accessory.
- Attachment** A piece of Ventrac equipment that requires a Power Unit for operation.
- Accessory** A device that attaches to a Power Unit or Attachment to extend its capabilities.
- Machine** Describes any "Attachment" or "Accessory" that is used in conjunction with a power unit.

SAFETY



General Safety Procedures for Ventrac Power Units, Attachments, & Accessories



Training Required

- The owner of this machine is solely responsible for properly training the operators.
- The owner/operator is solely responsible for the operation of this machine and for the prevention of accidents or injuries occurring to him/herself, other people, or property.
- Do not allow operation or service by children or untrained personnel. Local regulations may restrict the age of the operator.
- Before operating this machine, read the operator's manual and understand its contents.
- If the operator of the machine cannot understand this manual, then it is the responsibility of this machine's owner to fully explain the material within this manual to the operator.
- Learn and understand the use of all the controls.
- Know how to stop the power unit and the attachments quickly in the event of an emergency.

Requirements for Personal Protective Equipment (PPE)

- The owner is responsible for ensuring that all the operators use the proper PPE while operating the machine. Whenever you use the machine, use the following PPE:
- Certified eye protection and hearing protection.
- Closed toe, slip resistant footwear.
- Long pants or trousers.
- A dust mask for dusty conditions.
- Additional PPE may be required. Refer to the product safety procedures for any additional requirements.

Operation Safety

- Secure long hair and loose clothing. Do not wear jewelry.
- Inspect the machine before operation. Repair or replace any damaged, worn, or missing parts. Be sure the guards and shields are in proper working condition and are secured in place. Make any necessary adjustments before operating the machine.
- Some pictures in this manual may show shields or covers opened or removed in order to clearly illustrate the instructions. Under no circumstance should the machine be operated without these devices in place.
- Alterations or modifications to this machine can reduce safety and could cause damage to the machine. Do not alter the safety devices or operate with the shields or covers removed.
- Before each use, verify that all the controls function properly and inspect all the safety devices. Do not operate if the controls or safety devices are not in proper working condition.
- Check the parking brake function before operating. Repair or adjust the parking brake if necessary.
- Observe and follow all of the safety decals.
- All the controls are to be operated from the operator's station only.
- Always wear a seat belt if the machine has a roll cage/bar installed and in the upright position.

SAFETY



General Safety Procedures for Ventrac Power Units, Attachments, & Accessories



- Ensure the attachment or accessory is locked or fastened securely to the power unit before operating.
- Ensure that all bystanders are clear of the power unit and the attachment before operating. Stop the machine if someone enters your work area.
- Always be alert to what is happening around you, but do not lose focus on the task you are performing. Always look in the direction the machine is moving.
- Look behind and down before backing up to be sure of a clear path.
- If you hit an object, stop and inspect the machine. Make any necessary repairs before operating the machine again.
- Stop operation immediately at any sign of equipment failure. An unusual noise can be a warning of equipment failure or a sign that maintenance is required. Make any necessary repairs before operating the machine again.
- If equipped with a high/low range feature, never shift between high and low range while on a slope. Always move the machine to level ground and engage the parking brake before shifting range.
- Do not leave the machine unattended while it is running.
- Always park the machine on level ground.
- Always shut off the engine when connecting the attachment drive belt to the power unit.
- Never leave the operator's station without lowering the attachment to the ground, engaging the parking brake, shutting off the engine, and removing the ignition key. Make sure all moving parts have come to a complete stop before dismounting.
- Never leave the machine unattended without lowering the attachment to the ground, engaging the parking brake, shutting off the engine, and removing the ignition key.
- Only operate in well-lit conditions.
- Do not operate when there is a risk of lightning.
- Never direct the discharge of any attachment in the direction of people, buildings, animals, vehicles, or other objects of value.
- Never discharge material against a wall or obstruction. The material may ricochet back toward the operator.
- Use extra caution when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.
- Do not run the engine in a building without adequate ventilation.
- Do not touch the engine or the muffler while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause a burn.
- Do not change the engine governor settings or over-speed the engine. Operating the engine at excessive speeds may increase the hazard of personal injury.
- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, excessive grease, and other flammable materials.
- Clear the working area of objects that might be hit or thrown from the machine.

SAFETY



General Safety Procedures for Ventrac Power Units, Attachments, & Accessories



- Keep people and pets out of the working area.
- Know the work area well before operation. Do not operate where traction or stability is questionable.
- Reduce speed when you are operating over rough ground.
- Equipment can cause serious injury and/or death when improperly used. Before operating, know and understand the operation and safety of the power unit and the attachment being used.
- Do not operate the machine if you are not in good physical and mental health, if you will be distracted by personal devices, or if you are under the influence of any substance which might impair your decisions, dexterity, or judgment.
- Children are attracted to machine activity. Be aware of children and do not allow them in the work area. Turn off the machine if a child enters the work area.
- Power units, attachments, and accessories are not designed or intended for travel on public roadways. Never operate or travel on public roads or highways.
- Operate with safety lights when operating near roadways.
- Slow down and be careful of traffic when operating near or crossing roadways. Stop before crossing roads or sidewalks. Use care when approaching areas or objects that may obscure vision.

Keep Riders Off

- Only allow the operator on the power unit. Keep riders off.
- Never allow riders on any attachment or accessory.

Operating On Slopes

- Slopes can cause loss-of-control and tip-over accidents, which can result in severe injury or death. Be familiar with the emergency parking brake, along with the power unit controls and their functions.
- If the power unit is equipped with a fold down roll bar, it must be locked in the upright position when operating on any slope.
- Use low range (if equipped) when operating on slopes greater than 15 degrees.
- Do not stop or start suddenly when operating on slopes.
- Never shift between high and low range while on a slope. Always move the power unit to level ground and engage the parking brake before shifting range or placing the power unit in neutral.
- Variables such as wet surfaces and loose ground will reduce the degree of safety. Do not drive where the machine could lose traction or tip over.
- Keep alert for hidden hazards in the terrain.
- Stay away from drop-offs, ditches, and embankments.
- Sharp turns should be avoided when operating on slopes.
- Pulling loads on hills decreases safety. It is the responsibility of the owner/operator to determine loads that can safely be controlled on slopes.

SAFETY



General Safety Procedures for Ventrac Power Units, Attachments, & Accessories



- Transport the machine with the attachment lowered or close to the ground to improve stability.
- While operating on slopes, drive in an up and down direction whenever possible. If turning is necessary while driving across slopes, reduce your speed and turn slowly in the downhill direction.
- Ensure a sufficient supply of fuel for continuous operation. A minimum of one-half tank of fuel is recommended.

Truck Or Trailer Transport

- Use care when loading or unloading the machine into a truck or trailer.
- Use full width ramps for loading the machine into a truck or trailer.
- The parking brake is not sufficient to lock the machine during transport. Always secure the power unit and/or attachment to the transporting vehicle securely using straps, chains, cables, or ropes. Both the front and rear straps should be directed down and outward from the machine.
- Shut off the fuel supply to the power unit during transport on a truck or trailer.
- If equipped, turn the battery disconnect switch to the Off position to shut off electrical power.

Maintenance

- Keep the safety decals legible. Remove all grease, dirt, and debris from the safety decals and instructional labels.
- If any decals are faded, illegible, or missing, contact your dealer promptly for replacements.
- When new components are installed, be sure that the current safety decals are affixed to the replacement components.
- If any component requires replacement, use only original Ventrac replacement parts.
- Always turn the battery disconnect to the Off position or disconnect the battery before performing any repairs. Disconnect the negative terminal first and the positive terminal last. Reconnect the positive terminal first and the negative terminal last.
- Keep all bolts, nuts, screws, and other fasteners properly tightened.
- Always lower the attachment to the ground, engage the parking brake, shut off the engine, and remove the ignition key. Make sure all moving parts have come to a complete stop before cleaning, inspecting, adjusting, or repairing.
- If the power unit, attachment, or accessory requires repairs or adjustments not instructed in the operator's manual, the power unit, attachment, or accessory must be taken to an authorized Ventrac dealer for service.
- Never perform maintenance on the power unit and/or attachment if someone is in the operator's station.
- Always use protective glasses when handling the battery.
- Check the fuel lines for tightness and wear on a regular basis. Tighten or repair them as needed.
- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, and excess grease.
- Do not touch the engine, the muffler, or other exhaust components while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause a burn.

SAFETY



General Safety Procedures for Ventrac Power Units, Attachments, & Accessories



- Allow the engine to cool before storing and do not store near an open flame.
- Do not change the engine governor settings or over-speed the engine. Operating engine at excessive speeds may increase the hazard of personal injury.
- Springs may contain stored energy. Use caution when disengaging or removing springs and/or spring loaded components.
- An obstruction or blockage in a drive system or moving/rotating parts may cause a buildup of stored energy. When the obstruction or blockage is removed, the drive system or moving/rotating parts may move suddenly. Do not attempt to remove an obstruction or blockage with your hands. Keep your hands, feet, and clothing away from all power-driven parts.

Fuel Safety

- To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.
- Do not refuel the machine while smoking or at a location near flames or sparks.
- Always refuel the machine outdoors.
- Do not store the machine or fuel container indoors where the fumes or fuel can reach an open flame, spark, or pilot light.
- Only store fuel in an approved container. Keep out of the reach of children.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place the containers on the ground away from your vehicle before filling.
- Remove the machine from the truck or trailer and refuel it on the ground. If this is not possible, refuel the machine using a portable container, rather than from a fuel dispenser nozzle.
- Never remove the fuel cap or add fuel with the engine running. Allow the engine to cool before refueling.
- Never remove the fuel cap while on a slope. Only remove the fuel cap when parked on a level surface.
- Replace the fuel tank cap and the container cap securely.
- Do not overfill the fuel tank. Only fill to the bottom of the fuel neck, do not fill the fuel neck full. Overfilling of the fuel tank could result in engine flooding, fuel leakage from the tank, and/or damage to the emissions control system.
- If fuel is spilled, do not attempt to start the engine. Move the power unit away from the fuel spill and avoid creating any source of ignition until the fuel vapors have dissipated.
- If the fuel tank must be drained, it should be drained outdoors into an approved container.
- Check the fuel lines for tightness and wear on a regular basis. Tighten or repair them as needed.
- The fuel system is equipped with a shut-off valve. Shut off the fuel when transporting the machine to and from the job, when parking the machine indoors, or when servicing the fuel system.

SAFETY



General Safety Procedures for Ventrac Power Units, Attachments, & Accessories



Hydraulic Safety

- Make sure the hydraulic connections are tight and all hydraulic hoses and tubes are in good condition. Repair any leaks and replace any damaged or deteriorated hoses or tubes before starting the machine.
- Hydraulic leaks can occur under high pressure. Hydraulic leaks require special care and attention.
- Use a piece of cardboard and a magnifying glass to locate suspected hydraulic leaks.
- Keep your body and hands away from pinhole leaks or nozzles that eject high pressure hydraulic fluid. Hydraulic fluid escaping under high pressure can penetrate the skin causing serious injury, leading to severe complications and/or secondary infections if left untreated. If hydraulic fluid is injected into the skin, seek immediate medical attention no matter how minor the injury appears.
- The hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, remove any attachments, engage the parking brake, disengage the weight transfer system (if equipped), shut off the engine, and remove the ignition key. To relieve pressure on the auxiliary hydraulic system, shut off the power unit engine and move the hydraulic control lever left and right before disconnecting the auxiliary hydraulic quick couplers.

SAFETY



ED202 Safety Procedures



- Keep hands and feet away from the edger blade and the edging area.
- Do not make sharp turns with the edging disc in the ground.
- If the edger is equipped with an optional blower kit, disengage the PTO whenever you are not edging.
- The disc edge may be sharp. Wear glove when handling the edging disc.
- Thrown Object Hazard: Do not direct the blower discharge toward people, animals, or buildings.

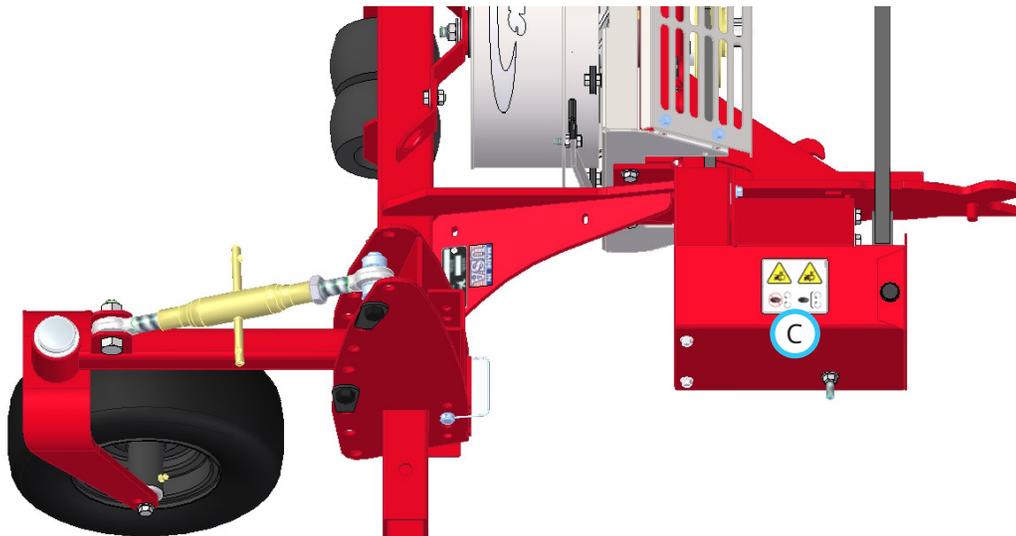
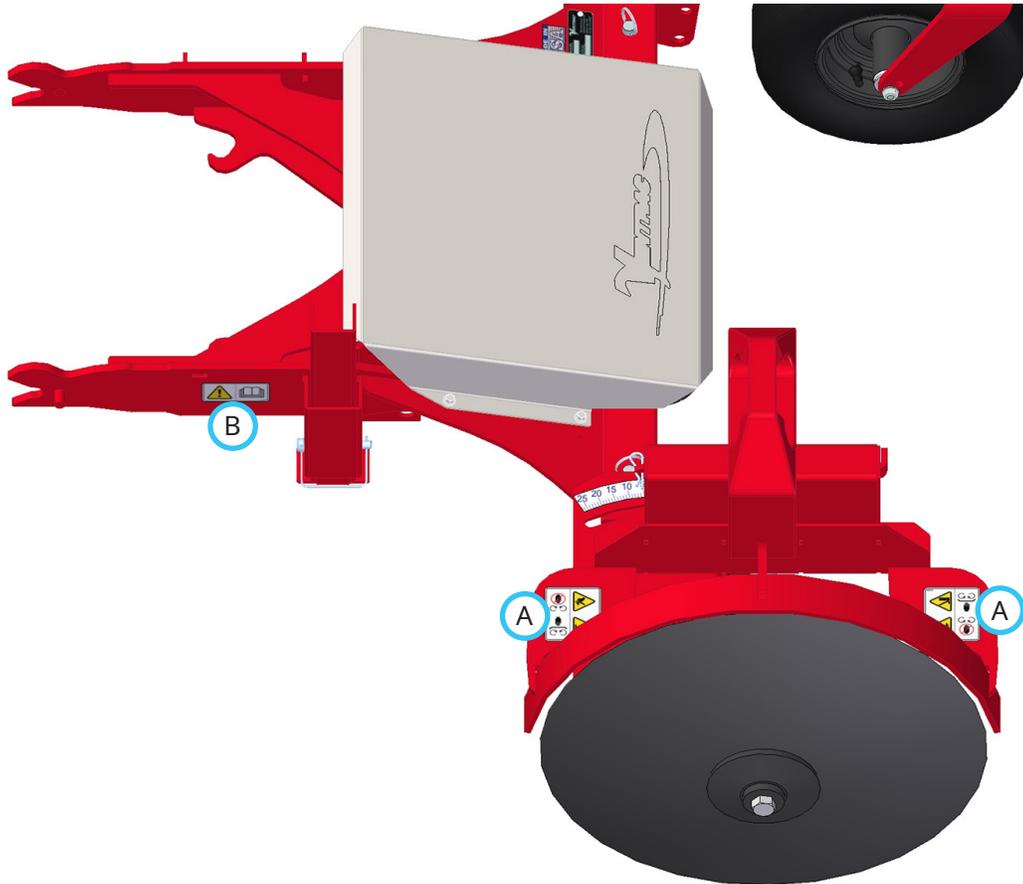
SAFETY

Safety Decals

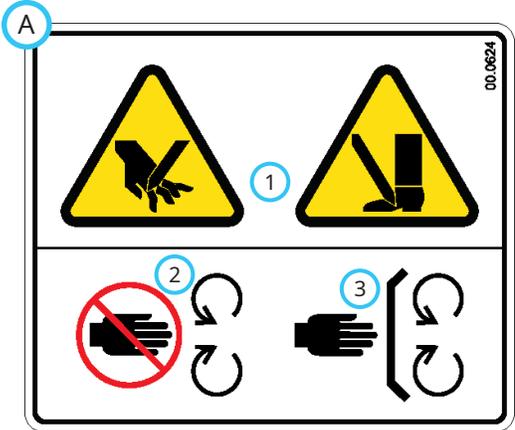
The following safety decals must be maintained on your attachment.

Keep all safety decals legible. Remove all grease, dirt, and debris from safety decals and instructional labels. If any decals are faded, illegible, or missing, contact your dealer promptly for replacements.

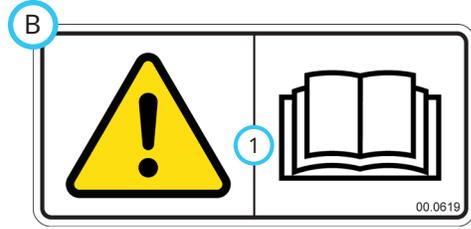
When new components are installed, be sure that current safety decals are affixed to the replacement components.



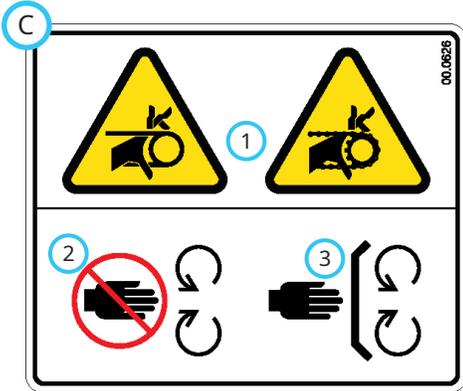
SAFETY



1. Cutting or puncture hazard - hand or foot.
2. Stay away from moving parts.
3. Keep all guards and shields in place.



1. Read the operator's manual.



1. Fingers or hand entanglement.
2. Stay away from moving parts.
3. Keep all guards and shields in place.

Decal	Description	Part Number	Quantity
A	Cutting Hazard - Hands and Feet	00.0624	2
B	Read Operator's Manual	00.0619	1
C	Entanglement Hazard	00.0626	1

EDGER SETUP AND CONFIGURATION

Edger Configurations

This section of the manual will explain various edger configurations and how to properly set up these configurations.

CAUTION

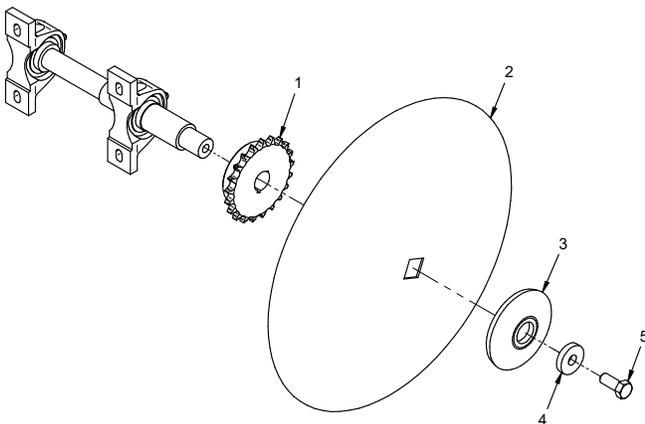
The disc edge may be sharp. Wear gloves when handling the edger disc.

Normal Edging Setup (Disc Concave Facing Toward the Frame)

For normal edging operation, the disc is mounted with the concave facing in toward the edger frame. This is the standard factory setup of the edger.



For normal edging setup, the disc mounting components must be installed as shown below.



- 1. Disc Sprocket
- 2. Disc
- 3. Disc Washer

- 4. Washer
- 5. Bolt

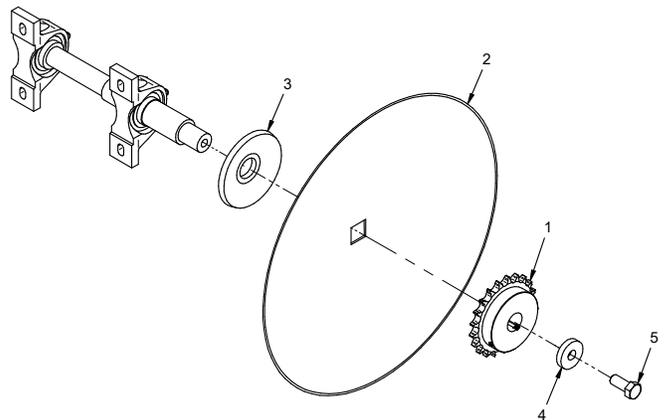
Bed Shaping Setup (Disc Concave Facing Away From the Frame)

When using the edger for bed shaping, the disc is mounting with the concave facing away from the edger frame. This setup is used for maintaining the edges around flower and mulch beds.



It is recommended when setting up the edger for bed shaping to rotate the disc assembly so the disc is behind the main frame receiver tube. To set up the edger for bed shaping:

1. Remove the 5/8 inch bolt (Ref. 5) and the 1-7/8 inch washer (Ref. 4) from the end of the shaft.
2. Remove the disc washer (Ref. 3), the disc (Ref. 2), and the disc sprocket (Ref. 1) from the shaft.
3. Refer to the Disc Position Setup section for instructions on rotating the disc mount frame so the disc is behind the main frame receiver tube.
4. Position the disc washer (Ref. 3) and the disc with the concave turned out away from the edger and install onto the shaft.

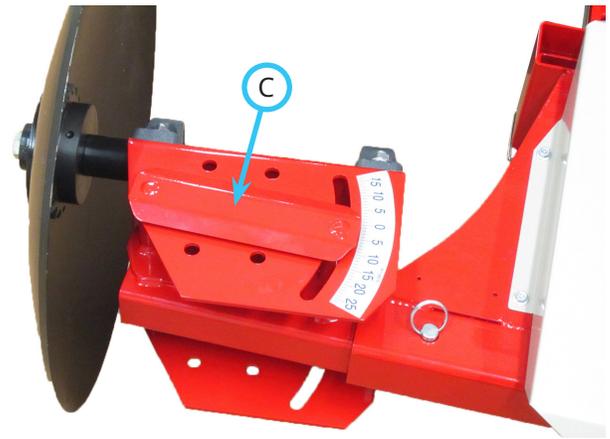
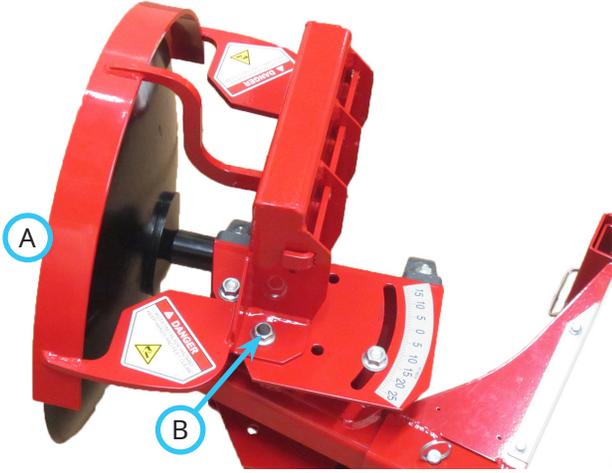


- 1. Disc Sprocket
- 2. Disc
- 3. Disc Washer

- 4. Washer
- 5. Bolt

EDGER SETUP AND CONFIGURATION

5. Install the disc sprocket (Ref. 1) onto the shaft and secure with the 1-7/8 inch washer (Ref. 4) and the 5/8 inch bolt (Ref. 5).
6. Reinstall the disc guard (A) onto the bearing mount plate using the outer set of holes (B) to position the guard over the edge of the disc.
2. Remove the ball pin (B) from the frame receiver tube, remove the disc frame assembly from the main frame receiver tube, and rotate the disc frame assembly 180 degrees.
3. With the disc positioned on the desired side of the main frame receiver tube, reinsert the disc frame tube into the main frame receiver tube, and secure with the ball pin.
4. Remove the disc adjust lock clamp (C) from the top of the bearing mount frame and reinstall the clamp and washers from the bottom and up through the bearing mount frame and disc frame clamp tubes. Secure with the 1/2 inch flat washers and flange nuts.



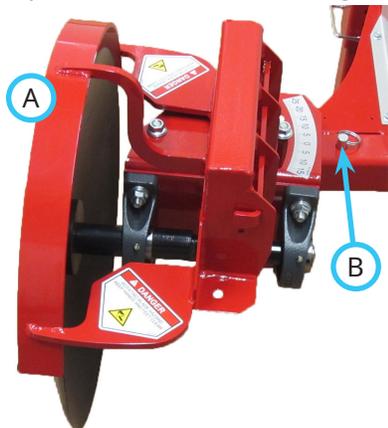
Disc Position Setup



The edger disc can be positioned either in front of or behind the main frame receiver tube. NOTE: if the edger is equipped with an optional blower kit, positioning the disc behind the main frame receiver tube will block the airflow and prevent debris from being blown away from the edging location.

To change the position of the disc:

1. Remove the disc guard (A) from the bearing mount frame by removing the 1/2 inch nuts and washers from the disc guard clamp.

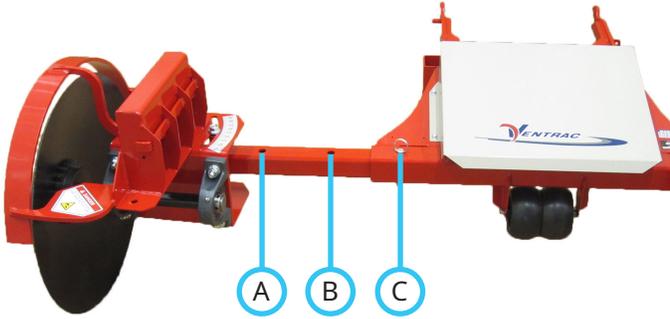


5. Reinstall the disc guard onto the bearing mount frame in position to cover the top edge of the disc.

EDGER SETUP AND CONFIGURATION

Disc Edger Extension

The disc mount frame tube has three mounting positions. The normal mounting position (A) locates the edger disc closest to the main frame. This position should be used whenever possible. The disc frame also can be extended either 15.2 cm (6 inches) (B) or 30.5 cm (12 inches) (C) to reach over curbs or into hard to reach areas.

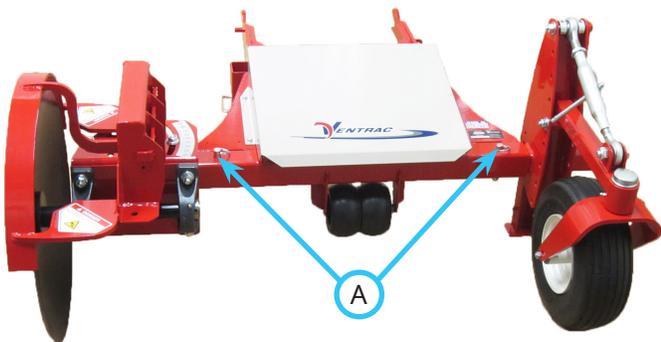


1. Remove the ball pin from the frame receiver tube, slide the disc mount frame tube out to the desired position, and secure with the ball pin.
2. After edging of the area that requires the edger disc to be extended is complete, return the disc mount frame tube to the normal position.

Setup for Left Side Operation

The edger can be operated with the disc on the left side of the edger as well as the right. To set up edger for left side operation:

1. Remove the two ball pins (A) from the frame receiver tube and remove both the gauge wheel assembly and the disc frame assembly from the edger.



2. Insert the gauge wheel assembly into the right side of the frame receiver tube and secure with the ball pin.

3. Insert the disc frame assembly into the left side of the frame receiver tube and secure with the ball pin.

NOTE: the disc position will be opposite from its previous position on the right side of the edger (i.e. if the disc was positioned in front of the frame receiver tube while mounted on the right side of the edger, it will now be positioned behind the frame receiver tube).



Refer to the Disc Position Setup section for instructions on rotating the disc to the front or rear of the receiver frame tube.

GENERAL OPERATION

Daily Inspection

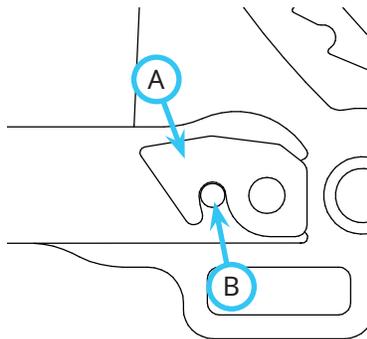
WARNING

Always engage the parking brake, shut off the power unit engine, remove the ignition key, and ensure that all moving parts have come to a complete stop before inspecting the components, or attempting any repair or adjustment.

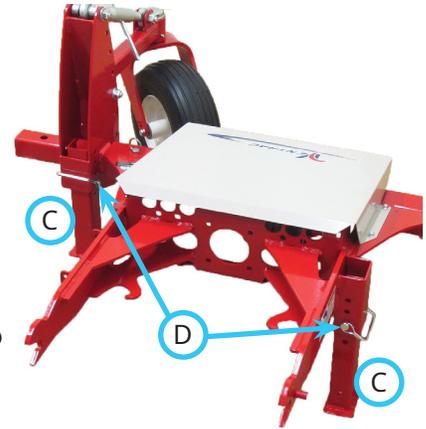
1. Park the machine on a level surface, with the engine shut off and all fluids cold.
2. Perform a visual inspection of both the power unit and the attachment. Look for loose or missing hardware, damaged components, or signs of wear.
3. Inspect the belts (if equipped) for damage or excessive wear. Refer to the Belt Inspection section of this manual.

Attaching

1. Drive the power unit slowly forward into the hitch arms of the attachment. Align the lift arms of the power unit with the attachment hitch arms by raising or lowering the front hitch and complete the engagement.
2. Once completely engaged, move the front hitch latch lever* to the locked position. The latch (A) must lock over the attachment's hitch arm pin (B).
3. Engage the parking brake* and shut off the engine.
4. If equipped with the optional blower, place the attachment belt onto the PTO drive pulley on the power unit. Ensure the belt is properly seated in each pulley.
5. Engage the PTO belt tensioner rod.



6. Move the storage stands (C) all the way up to the operating position and secure with the safety snap pins (D). NOTE: the front hitch may need to be raised slightly to take pressure off the storage stands.



Detaching

1. Park the power unit on a level surface and engage the parking brake.*
2. Lower the attachment to the ground.
3. Shut off the power unit engine.
4. If equipped with the optional blower, disengage the PTO belt tensioner rod.
5. Remove the attachment belt from the PTO drive pulley of the power unit.
6. Lower the two storage stands to the ground and secure with the safety snap pins.
7. Disengage the front hitch locking lever.*
8. Restart the power unit and slowly back away from the attachment. A side to side movement of the steering wheel may aid in disengagement.

*Refer to power unit operator's manual for operation of power unit controls.

GENERAL OPERATION

Operating Procedure

Before operation, perform the daily inspection and disengage the power unit's weight transfer system. Set the edger disc to the desired angle and set the gauge wheel to the desired cutting depth. Refer to the disc angle and cutting depth adjustment sections for adjustment instructions. If unsure of the cutting angle or depth, start with a conservative setting and make adjustments to the cutting angle and depth until the desired result is achieved.

For sidewalk edging, start with the front of the edger disc set 2-3 degrees away from the edger frame and a cutting depth of 2.5 cm (1 inch). Adjust the cutting depth as necessary to cut through the grass roots next to the sidewalk. Adjust the cutting angle in small increments (1-2 degrees) until the desired edge is achieved.



Edging angle

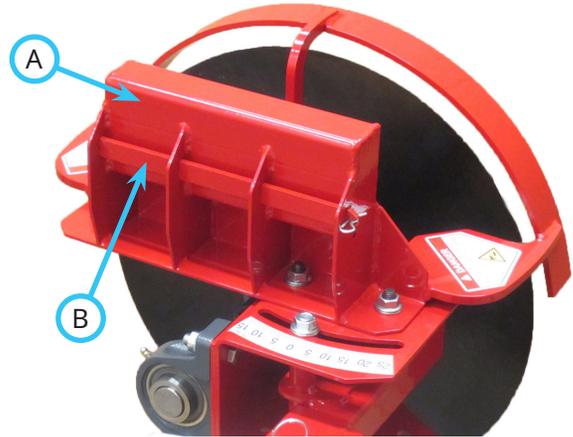
For bed shaping/edging, start with the rear of the edger disc set 6-8 degrees away from the edger frame and a cutting depth of 7.5-10 cm (3-4 inches). Adjust the cutting depth as necessary to cut below the root line of the grass. Adjust the cutting angle as necessary to create an air gap between the grass and the flower or mulch bed. Maintaining an open gap prevents the grass from growing into the flower or mulch bed.



Bed shaping angle

Move the power unit and edger into position and lower the edger slowly into the ground. If the edger is equipped with an optional blower, engage the PTO switch to activate the fan. Drive forward slowly while continuing to lower the edger until the tire touches the ground. Move the primary SDLA lever to the float position and maintain a speed that allows the operator to control the edger. Guide the edger disc along the edge of the sidewalk or other edging area. At the end of the edging line, decrease the power unit speed and lift the edger out of the ground. If equipped with an optional blower, shut off the PTO switch.

Do not make sharp turns with the disc in the ground. If the edger will not cut to the desired depth, weight must be added. The weight bar bracket (A) on the disc guard frame will accommodate three Ventrac weights (part # 47.0115).



Remove the weight retainer pin and install the weights onto the weight bar. Reinstall the weight retainer pin and secure with the hair pin.

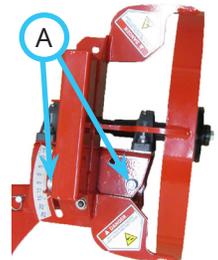
Transport of the Attachment

Transport the attachment with the power unit front hitch and attachment fully raised to reduce wear of the equipment. Travel slowly when transporting over undulating and rough surfaces to maintain control of the power unit and to reduce the shock to the power unit and the attachment. Always disengage the power unit PTO before transporting the attachment.

Edger Disc Angle Adjustment

The disc angle can be changed to create a wider or narrower edging line. To change the disc angle:

1. Loosen the two 1/2 inch nuts (A) on top of the bearing mount frame.
2. Rotate the edger disc to the desired angle. The decal on the bearing mount frame is useful for setting a desired angle or for measuring small incremental adjustments to the disc angle.
3. Retighten the 1/2 inch nuts to lock the disc angle.



GENERAL OPERATION

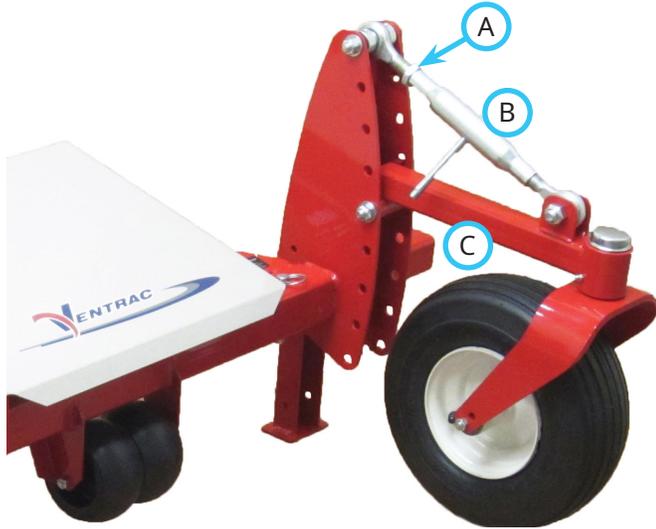
Edger Cutting Depth Adjustment

1. Park the power unit and edger on a level surface, preferably concrete or asphalt.
2. Lower the edger until the edger disc just touches the surface.

3. Measure the distance between the surface and the bottom of the tire to determine the approximate edging depth.



4. If the cutting depth needs to be adjusted, loosen the locking nut (A) on the adjustable link (B).



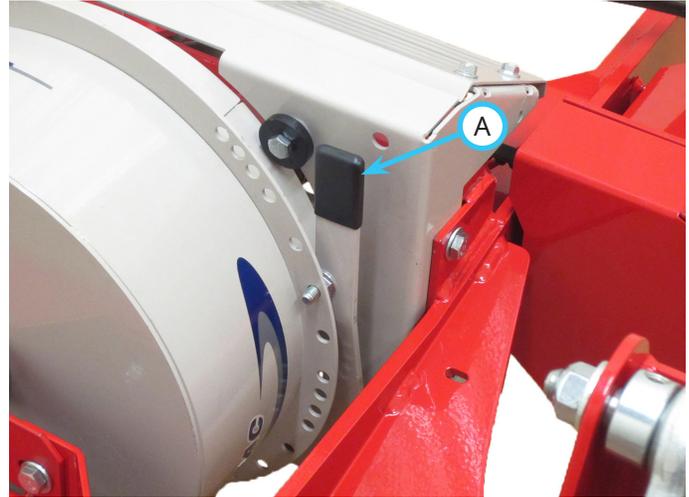
5. Turn the adjustable link until the measurement between the surface and the bottom of the tire reaches the desired depth. For a shallower cut, lengthen the adjusting link. For a deeper cut, shorten the adjusting link.
6. When the desired depth is reached, tighten the locking nut against the body of the adjustment link.

NOTE: the gauge wheel arm (C) should be as near level as possible. Move the gauge wheel arm and the adjusting link up or down in the series of holes in the gauge wheel frame in order to maintain a near level position.

Discharge Direction Adjustment for Optional Blower Fan

The fan housing can be rotated to direct the airflow to either the right or left side of the edger, depending on which side the edger disc is mounted.

1. Push the rotation index arm (A) toward the frame until the bolt disengages from the blower housing.



2. Rotate the blower housing until the discharge is pointed in the desired direction.
3. Release the rotation index arm, making sure that the bolt engages in the nearest hole in the blower housing to lock the discharge in place.

SERVICE

⚠ WARNING

Always engage the parking brake, shut off the power unit engine, remove the ignition key, and ensure that all moving parts have come to a complete stop before inspecting the components, or attempting any repair or adjustment.

ATTENTION

If any component requires replacement, use only original Ventrac replacement parts.

Cleaning and General Maintenance

For best results, and to maintain the finish of the edger, clean or wash the edger after each use to remove dirt, grass, and debris.

Lubrication Locations

Lubrication is required at the following locations using a lithium complex NLGI #2 grease.

Wipe the grease fittings clean before applying grease to the grease fittings.

Refer to the maintenance schedule for service intervals and the amount of grease.

Disc shaft bearings, wheel axle, and wheel pivot



Optional blower drive shaft bearings



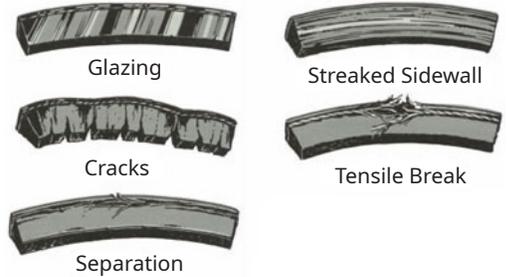
Tire Pressure

Tire pressure should be maintained between 124-138 kPa (18-20 psi).

Belt Inspection (Optional Blower Kit)

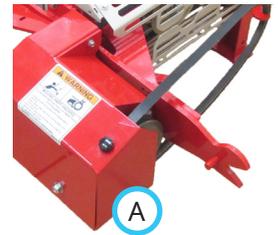
Inspecting the drive belts of the attachment can prevent sudden belt failure by finding problems before they cause a belt to break.

Typical wear on a drive belt may result in the conditions shown in the diagram. If any of these conditions occur, the drive belt will require replacement.



Attachment Drive Belt Replacement

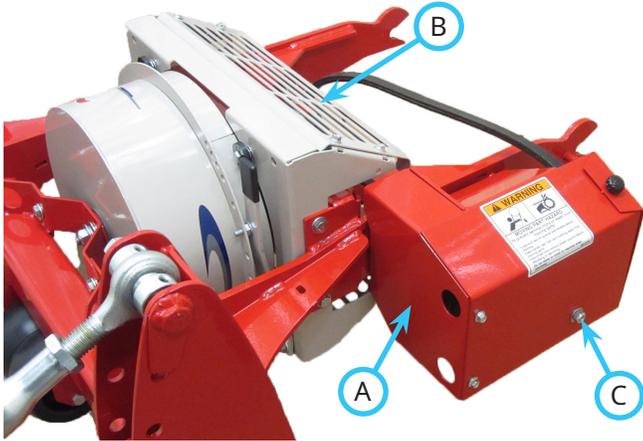
1. Detach the edger from the power unit.
2. Remove the drive pulley shield (A).
3. Remove the old drive belt and install the new drive belt onto the pulley.
4. Reinstall the drive pulley shield.



SERVICE

Fan Drive Belt Replacement

1. Detach the edger from the power unit.
2. Remove the front drive shaft cover (A) and the top and bottom fan inlet screens (B) from the edger.



3. Remove the 3/8 inch lock nut (C) and washer from the belt tensioner bolt.
4. Remove the fan drive belt from the drive shaft pulley first, then remove the belt from the fan spindle pulley.
5. Unfasten the attachment drive belt from the right hitch arm tab.
6. Pull the old fan belt over the drive shaft housing and off the left hitch arm.
7. Install the new drive belt over the left hitch arm and drive shaft housing.
8. Install the belt onto the fan spindle pulley first, then onto the drive shaft pulley.
9. Reinstall the washer and 3/8" lock nut onto the belt tensioner bolt and tighten to apply belt tension.
10. Reinstall the top and bottom fan inlet screens and the front drive shaft cover.

Storage

Preparing the Attachment for Storage

1. Clean the attachment to remove accumulated dirt, grass, and debris.
2. Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
3. Inspect the safety decals. Replace any decals that are faded, illegible, or missing.
4. Apply grease to all grease points and wipe off any excess grease.
5. If equipped with an optional blower, inspect the belts for damage or wear and replace if necessary.
6. Inspect the painted components for chips, scratches, or rust. Clean and touch up the surfaces as needed.

Removing the Attachment from Storage

1. Clean the attachment to remove any accumulated dust or debris.
2. Inspect the attachment as instructed in the Daily Inspection section of this manual.
3. Test the attachment to ensure that all the components are working properly.

SERVICE

Maintenance Schedule

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	At 250 hours	At 300 hours	At 350 hours	At 400 hours	At 450 hours	At 500 hours	At 550 hours	At 600 hours	At 650 hours	At 700 hours	At 750 hours	At 800 hours	At 850 hours	At 900 hours	At 950 hours	At 1,000 hours	Yearly	
Grease and Lubrication: See Lubrication Section																										
Disc Shaft Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Caster Wheel Pivot	1	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Wheel Axle Bearing	1	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Optional Blower Drive Shaft Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Inspection																										
Inspect for Loose, Missing, or Worn Components				✓																						
Check the Tire Pressure				✓																						
Inspect the Safety Decals				✓																						
Inspect the Drive Belts (Optional Blower)				✓																						
^Grease until fresh grease is visible.																										

Maintenance Checklist

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	At 250 hours	At 300 hours	At 350 hours	At 400 hours	At 450 hours	At 500 hours	At 550 hours	At 600 hours	At 650 hours	At 700 hours	At 750 hours	At 800 hours	At 850 hours	At 900 hours	At 950 hours	At 1,000 hours	Yearly	
Grease and Lubrication: See Lubrication Section																										
Disc Shaft Bearing	2	1																								
Caster Wheel Pivot	1	1																								
Wheel Axle Bearing	1	^																								
Optional Blower Drive Shaft Bearing	2	1																								
Inspection																										
Inspect for Loose, Missing, or Worn Components																										
Check the Tire Pressure																										
Inspect the Safety Decals																										
Inspect the Drive Belts (Optional Blower)																										
^Grease until fresh grease is visible.																										

SPECIFICATIONS

Dimensions

Overall Height	53 cm (21 inches)
Overall Length	114 cm (45 inches)
Overall Width	137 - 168 cm (54 - 66 inches)
Weight	90 kg (200 pounds)
Disc Diameter	51 cm (20 inches)
Maximum Cutting Depth	15 cm (6 inches)

Features

- A reversible cutting disc for both edging or bed shaping
- Right or left side edging capability
- A three position extendable disc arm
- A weight bar
- An optional debris blower