

Operator's Manual

# MK960

Wide Area Mower





500 Venture Drive  
Orrville Oh 44667  
www.ventrac.com

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A downloadable parts manual is also available.

### 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.

Date of Purchase: \_\_\_\_\_

Dealer: \_\_\_\_\_

Dealer Address: \_\_\_\_\_

Dealer Phone Number: \_\_\_\_\_

Dealer Fax Number: \_\_\_\_\_

<p>Model # (A): _____</p> <p>Serial # (B): _____</p> <p style="text-align: center;">Affix Part/Serial Number label here.</p>
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# INTRODUCTION



Ventrac Products Inc. is pleased to provide you with your new Ventrac MK960 mower! 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 MK960 mower.

	Item Description	Part Number
<b>Accessories</b>	Hydraulic Deck Flip Up Kit	70.8203
	Flat Free Tire/Wheel Assembly (requires 2 per mower)	53.0148
	High Lift Mower Blades (requires 3 per mower)	79.0120

## Product Description

The MK960 mower is designed for the sole purpose of finish mowing. A high strength steel mower deck and an all steel carrier frame combine to provide long lasting service. The MK960 features a full length rear roller for even cutting and grass striping.

The MK960 features a 241 cm (95 inch) cutting width and seventeen cutting positions ranging from 25 mm (1 inch) to 127 mm (5 inches).

The deck can be manually tilted to a near vertical position for cleaning, maintenance, or storage. An optional hydraulic deck flip up kit uses the power unit hydraulic system to flip the deck up to the vertical position.

## 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, maintain, and service your machine. It is divided into sections for convenient reference of the appropriate section.

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. Understanding the operator's manual will help you, as well as others, avoid personal injury and/or damage to the equipment. Keep this manual with the machine at all times. The manual should remain with the machine even if it is sold. 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

Throughout this manual, you will encounter special messages and symbols that identify potential safety concerns to help you as well as others avoid personal injury or damage to the equipment.

### SYMBOL DEFINITIONS

#### **ATTENTION**

 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. 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.

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.

### 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.

## 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

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## 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.

### Operation Safety

- 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.

# SAFETY

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



- Always wear a seat belt if the machine has a roll cage/bar installed and in the upright position.
- 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.



# SAFETY

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



- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, excessive grease, and other flammable materials.
- Secure long hair and loose clothing. Do not wear jewelry.
- Clear the working area of objects that might be hit or thrown from the machine.
- 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.

### 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.

# SAFETY

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



- Pulling loads on hills decreases safety. It is the responsibility of the owner/operator to determine loads that can safely be controlled on slopes.
- 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.

### Roadway Safety

- Operate with safety lights when operating on or near roadways.
- Obey all state and local laws concerning operation on 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.
- If there is any doubt of safety conditions, discontinue the machine operation until a time when the operation can be performed safely.
- When operating near or on roadways, have a Slow Moving Vehicle Emblem clearly displayed.

### 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.

# SAFETY

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



- 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.
- 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.

# SAFETY

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



- 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.

### 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

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## MK960 Safety Procedures



### Cutting Unit Safety

- Rotating Blade Hazard: Contact with the rotating mower blades or other moving parts may cause personal injury. Keep your hands and feet away.
- Rotation of one blade may cause another blade to rotate.
- Thrown Object Hazard: Do not direct the mower discharge toward people, animals, or buildings. Never operate with the deflector(s) removed.
- Always shut off the PTO to stop the mower blades whenever you are not mowing, especially when crossing loose terrain such as gravel.
- Never raise the mower deck with the blades running.

### Optional Hydraulic Flip Up Kit Safety

- The attachment hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, the attachment's auxiliary hydraulic hoses must be disconnected from the power unit. Lower the attachment to the ground, shut off power unit engine, move the secondary S.D.L.A. lever left and right to relieve auxiliary hydraulic pressure, and disconnect the auxiliary hydraulic quick couplers.
- Do not disconnect the auxiliary hydraulic hoses for the optional flip up kit while the deck is in the flip up (service) position.

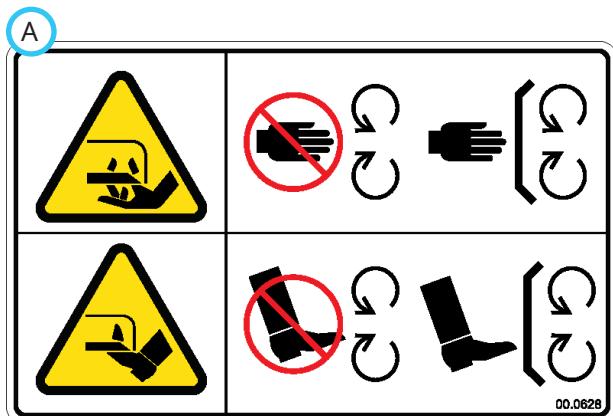
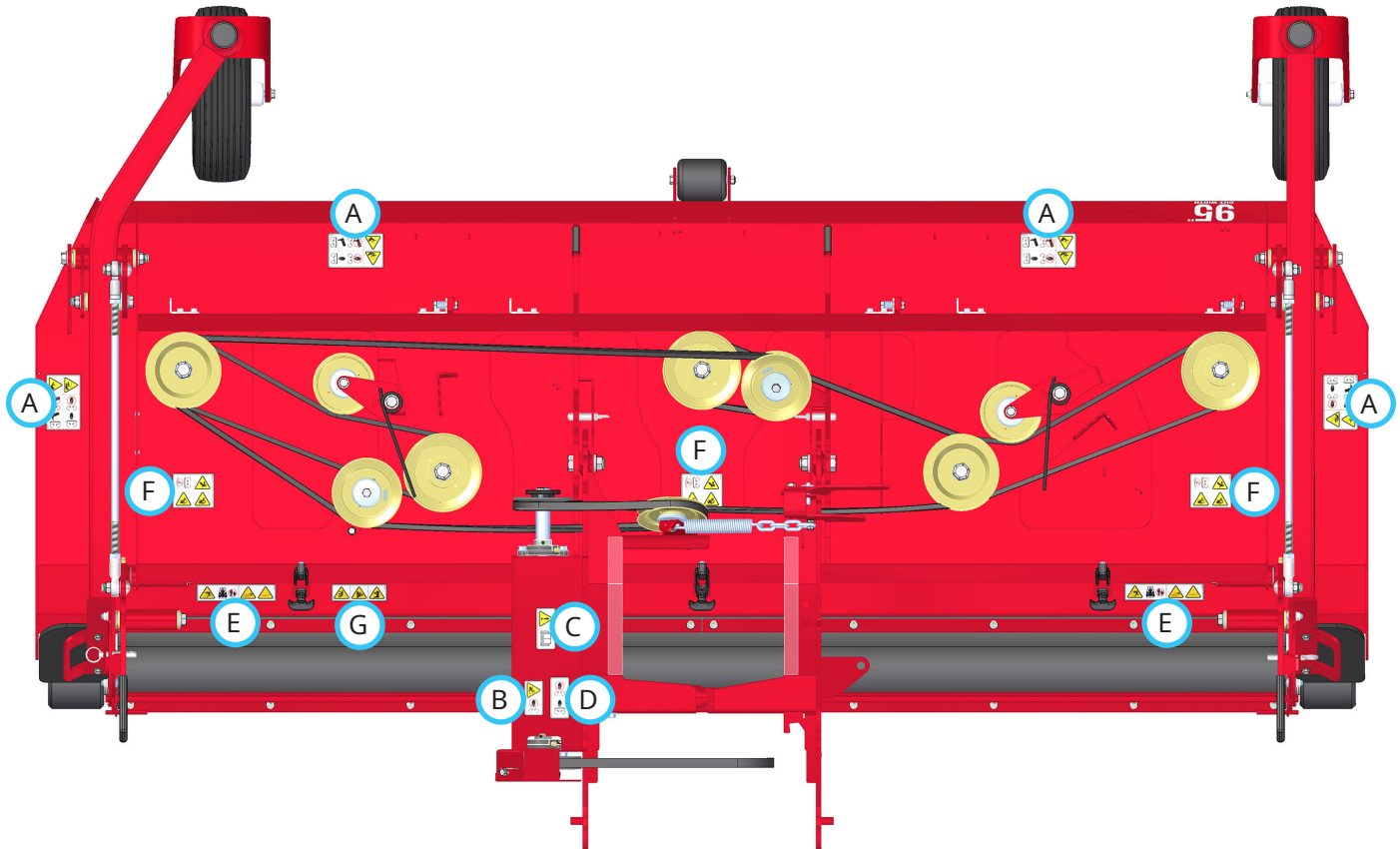
# SAFETY

## 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.



Cutting/dismemberment hazard of hand or foot, mower blade.

Stay away from moving parts.

Keep all guards and shields in place.

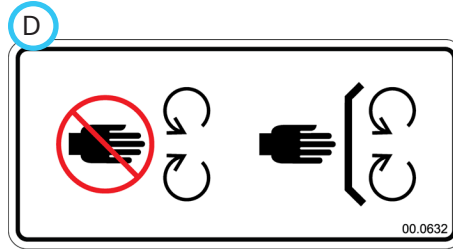


Fingers or hand entanglement.  
Stay away from moving parts.

# SAFETY



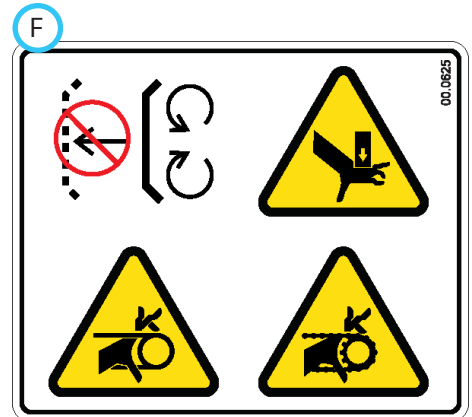
Warning - Read Operator's Manual



Stay away from moving parts.  
Keep all guards and shields in place.



Thrown object hazard.  
Keep bystanders away from the machine.  
Do not operate with the deflector belting removed.



Shield missing - do not operate.  
Pinching/crushing hazard.  
Fingers or hand entanglement.



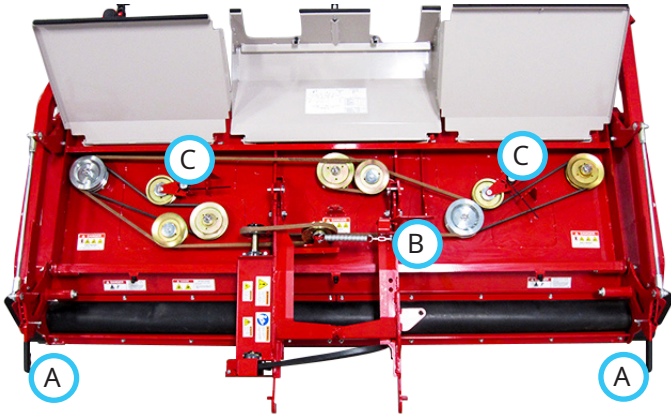
Pinching or crushing hazard.

Decal	Description	Part Number	Quantity
A	Cutting Hazard Mower Blade	00.0628	4
B	Finger/Hand Entanglement	00.0631	1
C	Read Operator's Manual	00.0619	1
D	Moving Parts Hazard	00.0632	1
E	Thrown Object Hazard	00.0633	2
F	Shield Missing	00.0625	3
G	Pinching or Crushing Hazard	00.0620	1

# OPERATIONAL CONTROLS

## Operational Control Locations

Use the following images to help identify the locations of operational controls. The letter next to each control can be referenced to the list that follows these images.



- A. Height Adjustment Handles
- B. Main Belt Tension Handle
- C. Outer Belt Tension Springs

## Height Adjustment Handles (A)

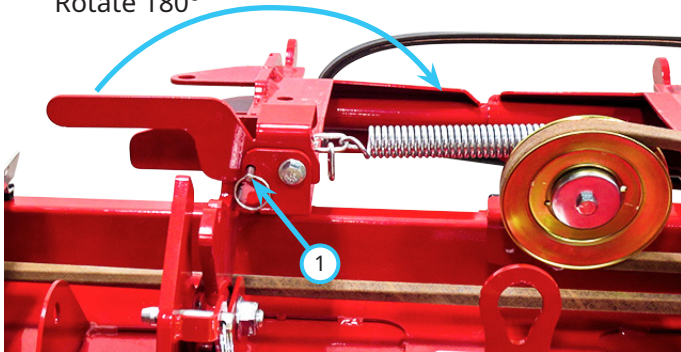
The height adjustment handles (A) are used to raise or lower the mower deck and to lock the mower deck at the desired cutting height. The right and left adjustment handles must both be set to the same height position. The cutting height position decals list the adjustment handle positions and the corresponding cutting heights.

## Main Belt Tension Handle (B)

The main belt tension handle (B) is used to release or apply tension to the main deck belt. The main belt tension handle must be released in order to flip the deck up to the service position.

Remove the ball pin (1) from the main belt tension handle and rotate the handle 180 degrees to release the belt tension.

Rotate 180°



## Outer Belt Tension Springs (C)

The outer belt tension springs are used to release or apply tension to the single spindle deck belts.

## Primary SDLA Control Lever

Pull the power unit's primary SDLA lever to the left to raise the power unit front hitch and the mower deck. Push the lever to the right to lower the power unit front hitch and the mower deck. The control lever must be in the float (detent) position during operation of the mower. Float position is attained by pushing the lever to the right until the float detent locks the lever in place.

## Secondary SDLA Control Lever

The power unit's secondary SDLA control lever controls the optional hydraulic deck flip up kit. Pull the lever to the left to flip the deck up to the service position. Push the lever to the right to lower the deck back down to the operating position.

## Weight Transfer

Terrain and ground conditions may affect the appropriate setting for the power unit's weight transfer system. In most cases, the weight transfer system\* should be set from 3/4 to full capacity.

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



# 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. If equipped with a hydraulic flip up kit, inspect the hydraulic hoses and the hydraulic fittings to ensure tight, leak free connections.
4. Inspect the belts for damage or excessive wear. Refer to the Belt Inspection section of this manual.
5. Inspect the mower blades and the mower blade mounting bolts. The blades should be sharp and securely fastened. Service as required.
6. Check the tires for proper inflation.

## Attaching

1. Check to ensure both mower deck height adjustment handles are set to position number 17.
2. 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.
3. Once completely engaged, close the front hitch locking lever.\*
4. Engage the parking brake\* and shut off the engine.
5. Place the attachment belt onto the PTO drive pulley on the power unit. Ensure the belt is properly seated in each pulley.
6. Engage the PTO tension spring.
7. If equipped with a hydraulic flip up kit, wipe the hose ends clean, and connect to the power unit's hydraulic quick couplers. Connect the hoses and the quick couplers so the colored indicators are paired together (red to red, etc.).
8. Engage the power unit's weight transfer system\*.

## Detaching

1. Park the power unit on a level surface and engage the parking brake.\*

### **ATTENTION**

It is important to set the mower deck height adjustment handles to position number 17 prior to detaching the mower deck from the power unit. It is difficult to adjust the mower deck height for reattachment when the mower deck is detached.

2. Set both of the mower deck height adjustment handles to position number 17.
3. Disengage the power unit's weight transfer system\*.
4. Lower the attachment to the ground.
5. Shut off the power unit engine.
6. Disengage the PTO tension spring.
7. Remove the attachment belt from the PTO drive pulley of the power unit.
8. If equipped with a hydraulic flip up kit, disconnect the hydraulic quick couplers from the power unit and store the hose ends in the holes on the right hitch arm brace.
9. Disengage the front hitch locking lever.\*
10. 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

Prior to operation, perform the daily inspection and confirm the mower deck cutting height and the power unit's weight transfer system are set properly.

Inspect the mowing area and remove rocks, sticks, and any other objects that could be thrown by the machine or become entangled in the blades.

Lower the mower deck to the ground and place the power unit's primary SDLA lever in the float position by pushing it to the right until the detent engages. The lever will stay in this position until intentionally removed.

With the power unit engine running between 2,000 and 3,000 RPM, engage the PTO switch, then adjust the throttle to the desired engine RPM.

Begin forward motion in the desired mowing path. Avoid obstacles and remove debris as necessary. When the edge of the mowing area is reached, turn the power unit and the mower around and align for the next pass.

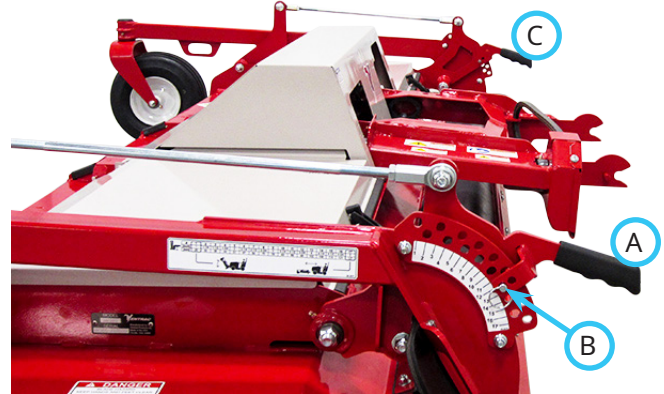
Mowing in a back and forth pattern, where each mowing pass is made in the opposite direction of the pass beside it, will create a stripe pattern in the grass. The full length rear roller rolls the grass in the direction of travel to further enhance the stripe effect.

## Transport of 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.

## Cutting Height Adjustment

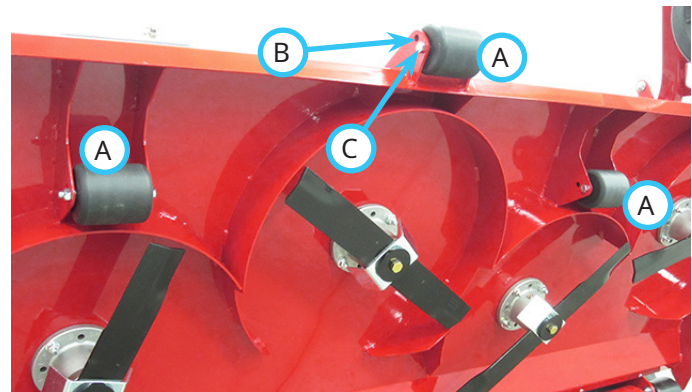
1. Rotate the left height adjustment handle (A) down slightly to relieve pressure on the locking pin (B) and remove the pin from the handle.



2. Raise or lower the handle to the desired cutting height setting and replace the locking pin.
3. Repeat steps 1 & 2 for the right height adjustment handle (C), making sure to set it in the same position as the left height adjustment handle.

## Anti-Scalp Roller Position

The three anti-scalp rollers (A) on the mower deck have an upper and lower mounting position. The correct mounting position is dependent on the selected cutting height. To prevent scalping, mount all three rollers in the same recommended position.



If the height adjustment handles are set in position # 3 or lower (38 mm / 1-1/2 inches or shorter), mount the rollers in the upper mounting holes (B).

If the height adjustment handles are set in position # 4 or higher (44 mm / 1-3/4 inches or taller), mount the rollers in the lower mounting holes (C).

# 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 mower deck, clean or wash the mower to remove accumulated clippings, leaves, and dirt when the job is finished. Refer to the Deck Flip-up Procedure to access the underside of the deck.

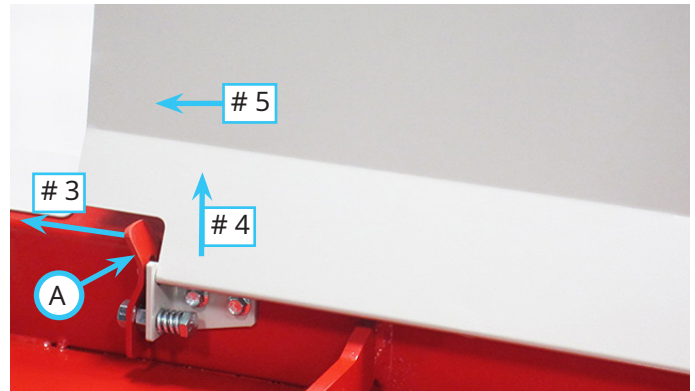
If washing the mower deck, do not spray directly into the bearings or seals. After washing, it is important to run the mower so that water does not reside on the seals or bearings for the drive system. When washing is complete, return the deck to the operating position. Move the power unit and mower to a clean, debris-free location and activate the PTO for 30 seconds to remove any standing water.

### Deck Cover Removal and Installation

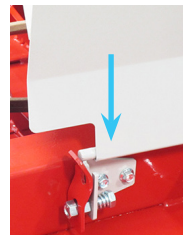
The left, center, and right deck covers all use the same procedure for removal and installation.

NOTE: the center deck cover must be opened or removed before the left and right deck covers can be removed.

1. Unfasten the rubber handle that secures the rear of the cover to the main deck.
2. Rotate the cover forward to open.
3. Pull the latch plate (A) away from the right hinge point of the cover.



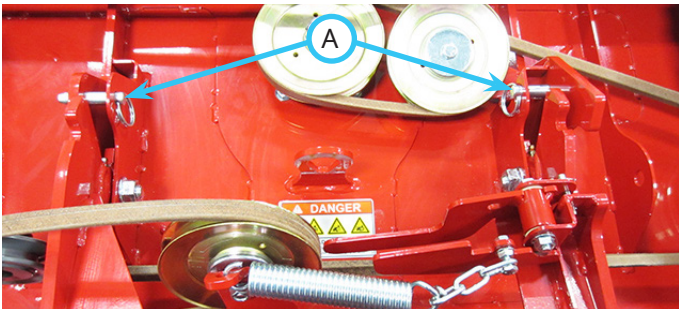
4. Lift the right side of the cover up to clear the latch plate.
5. Slide the cover to the right to remove the left hinge pin from the hinge bracket.
6. To reinstall the cover, insert the left hinge pin into the hole in the hinge bracket.
7. Align the right hinge pin with the slot in the hinge bracket and push down until the latch plate snaps over the pin to secure in place.



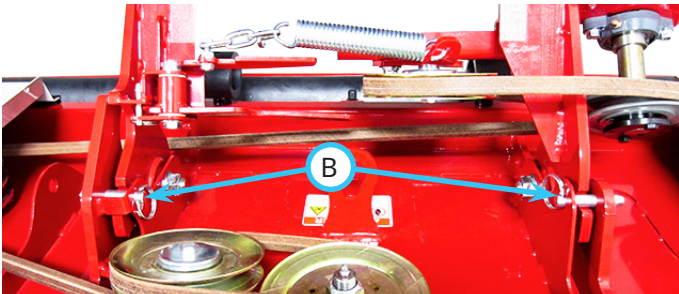
# SERVICE

## Deck Flip Up Procedure (Service Position) Manual Flip Up Procedure

1. Park the power unit and mower on a smooth, level surface.
2. Engage the parking brake, shut off the engine, and remove the ignition key.
3. Place the right and left cutting height adjustment handles into position # 1.
4. Remove the center deck cover.
5. Remove the ball pin from the main belt tension handle and rotate the handle 180 degrees to release the main deck belt tension.
6. Remove the two ball pins (A) from the left and right hitch arm mounting brackets.



7. Start the power unit's engine and raise the power unit front hitch to its highest position.
8. Shut off the power unit's engine and remove the ignition key.
9. Lift the mower deck up to a near vertical position and reinstall the two ball pins (B) to lock the deck in the upright position.



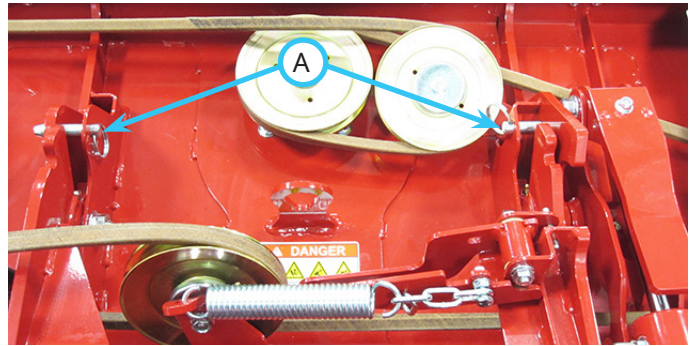
10. To return the deck to the operating position, remove the two ball pins from the hitch arm mounting brackets and lower the deck to the operating position. NOTE: if the front hitch lowers due to hydraulic drift, it may be necessary to start the power unit's engine and raise the mower deck before removing the ball pins.
11. Lower the mower deck to the ground.
12. Reinstall the two ball pins into the hitch arm mounting brackets.
13. Ensure the belt is properly seated in the pulley grooves, rotate the main belt tension handle 180

degrees to engage belt tension, and secure with the ball pin.

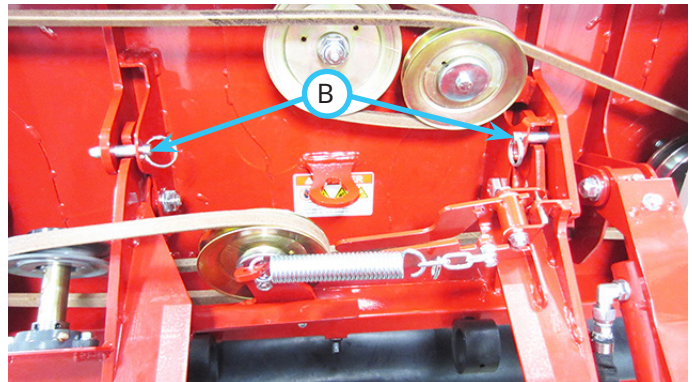
14. Reinstall the center deck cover and secure with the rubber handle.

## Optional Hydraulic Flip Up Procedure

1. Park the power unit and mower on a smooth, level surface.
2. Engage the parking brake, shut off the engine, and remove the ignition key.
3. Place the right and left cutting height adjustment handles into position # 1.
4. Open the center deck cover.
5. Remove the ball pin from the main belt tension handle and rotate the handle 180 degrees to release the main deck belt tension.
6. Remove the two ball pins (A) from the left and right hitch arm mounting brackets.



7. Close the center deck cover but do not latch.
8. Return to the operator's seat, start the power unit's engine, and raise the power unit front hitch to its highest position.
9. Pull the secondary SDLA lever to the left and hold until the deck stops moving at a near vertical position.
10. Shut off the power unit's engine and remove the ignition key.
11. Open the center deck cover and reinstall the two ball pins (B) to lock the deck in the upright position.



# SERVICE

12. To return the deck to the operating position, remove the two ball pins from the hitch arm mounting brackets, return to the operator's seat, start the power unit's engine, and lower the deck to the operating position by pushing the secondary SDLA lever to the right. NOTE: if the front hitch lowers due to hydraulic drift, it may be necessary to start the power unit's engine and raise the mower deck before removing the ball pins.
13. Lower the mower deck to the ground.
14. Shut off the power unit's engine and remove the ignition key.
15. Open the center deck cover.
16. Reinstall the two ball pins into the hitch arm mounting brackets.
17. Ensure the belt is properly seated in the pulley grooves, rotate the main belt tension handle 180 degrees to engage belt tension, and secure with the ball pin.
18. Close the center deck cover and secure with the rubber handle.

## Mower Blade Inspection/Replacement

### CAUTION

The mower blades may be sharp. Always wear heavy gloves when working with the mower blades.

1. Flip the mower deck up to the service position.
2. Inspect the mower blades to ensure the cutting edges are sharp. If the blades are dull or damaged, they must be removed and sharpened or replaced.
3. Place a short piece of 2 x 4 wood between the end of the blade and an appropriate structural part of the deck frame to prevent the blade from rotating.
4. Loosen the blade bolt counterclockwise and remove the blade for sharpening or replacement.
5. When installing a blade, the wood block must be placed on the opposite side of the blade to prevent blade rotation when tightening the blade bolt.
6. Torque the blade bolt to 102-108 Nm (75-80 ft-lbs).

## Mower Blade Sharpening

The mower blades should be sharpened and balanced by a professional. Maintain the balance, the same bevel, and the length of the sharpened surface.

## Belt Inspection

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



Glazing



Streaked Sidewall



Cracks



Tensile Break



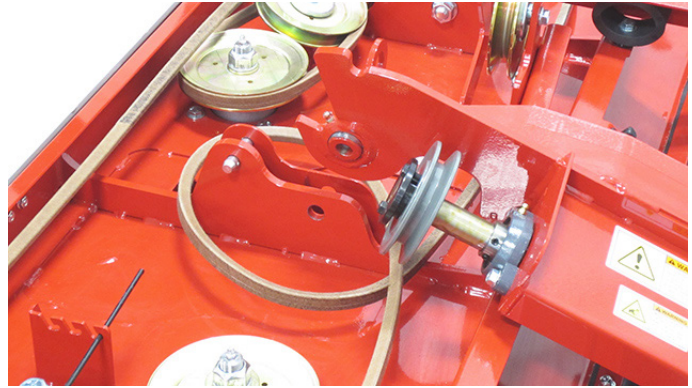
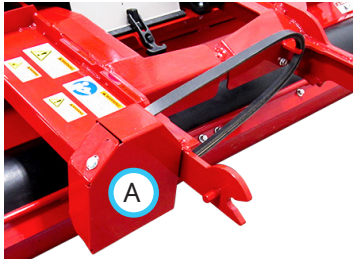
Separation

occur, the drive belt will require replacement.

# SERVICE

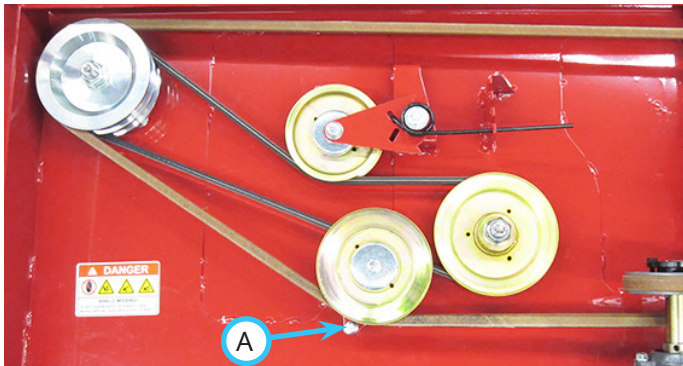
## Attachment Drive Belt Replacement

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

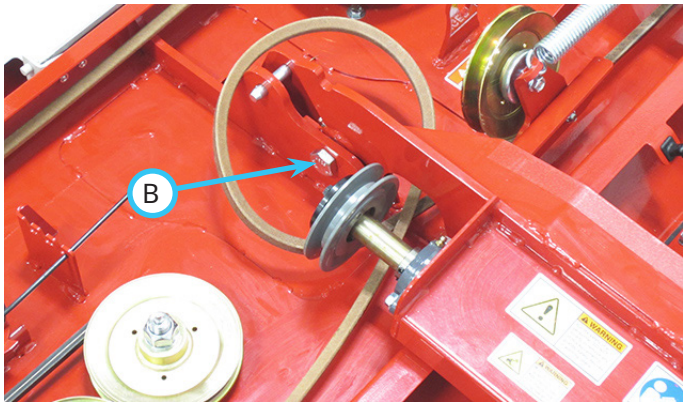


## Main Deck Belt Replacement

1. Detach the mower deck from the power unit.
2. Open the center, left, and right deck covers.
3. Remove the belt retainer bolt (A) from the left idler pulley bracket.

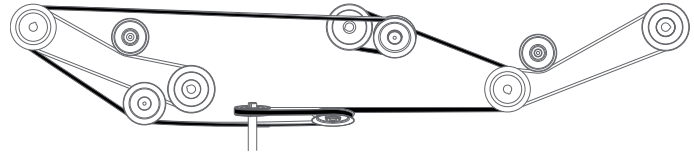


4. Remove the ball pin from the main belt tension handle and rotate the handle 180 degrees to release the main deck belt tension.
5. Remove the belt from the belt tensioner pulley and slide the loop of the belt over the end of the left hitch arm so that the belt is looped around the left hitch arm mounting brackets.



6. Remove the left hitch arm mounting bolt (B) and lift the hitch arm up away from the mounting brackets.

7. Pull the belt out through the opening between the hitch arm and the mounting brackets.
8. Remove the belt from the spindle pulleys, lift up slightly on the left and right hitch arms, and slide the rear loop of the belt out between the deck and the hitch arms.
9. Place the new belt over the hitch arms. The front of the belt loop goes above the hitch arms and is installed on the spindle pulleys. The rear of the belt loop goes under the hitch arms.

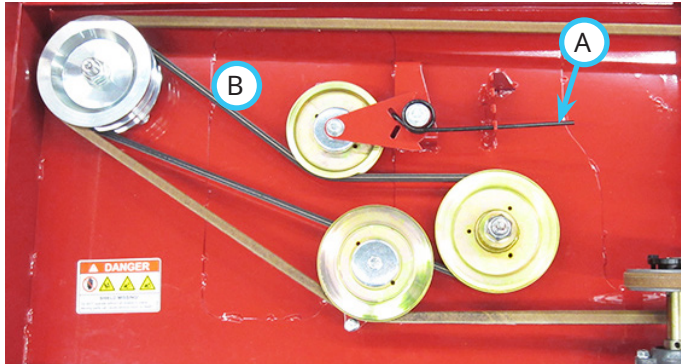


10. Lift the front of the left hitch arm up away from the mounting brackets and loop the belt around the left hitch arm mounting brackets as shown in the previous pictures.
11. Reinstall the left hitch arm bolt and nut and torque to 205 Nm (151 ft-lbs).
12. Place the belt loop onto the drive shaft pulley and the belt tensioner pulley.
13. Check to ensure the belt is routed properly and seated in the groove of each pulley.
14. Rotate the main belt tension handle 180 degrees to engage belt tension and secure with the ball pin.
15. Reinstall the belt retainer bolt in the left idler pulley bracket.
16. Close the left, right, and center deck covers and secure with the rubber handles.

# SERVICE

## Mid Left Spindle Belt Replacement

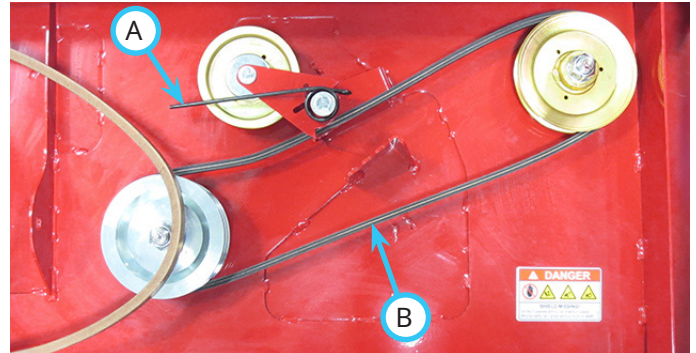
1. Detach the mower deck from the power unit.
2. Open the center and left deck covers.
3. Remove the ball pin from the main belt tension handle and rotate the handle 180 degrees to release the main deck belt tension.
4. Remove the main deck belt from the top groove of the left spindle pulley.
5. Release the belt tension spring (A) for the mid left spindle belt.



6. Remove the mid left spindle belt (B) from the left spindle pulley and the mid left spindle pulley.
7. Place the new belt onto the mid left spindle pulley and the bottom groove of the left spindle pulley.
8. Engage the belt tension spring for the mid left spindle belt.
9. Place the main deck belt into the top groove of the left spindle pulley.
10. Rotate the main belt tension handle 180 degrees to engage belt tension and secure with the ball pin.
11. Close the left and center deck covers and secure with the rubber handles.

## Right Spindle Belt Replacement

1. Detach the mower deck from the power unit.
2. Open the center and right deck covers.
3. Remove the ball pin from the main belt tension handle and rotate the handle 180 degrees to release the main deck belt tension.
4. Remove the main deck belt from the top groove of the mid right spindle pulley.
5. Release the belt tension spring (A) for the right spindle belt.



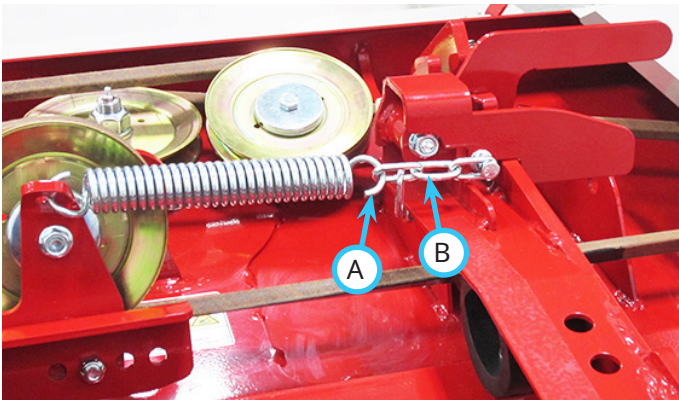
6. Remove the right spindle belt (B) from the right spindle pulley and the mid right spindle pulley.
7. Place the new belt onto the right spindle pulley and the bottom groove of the mid right spindle pulley.
8. Engage the belt tension spring for the right spindle belt.
9. Place the main deck belt into the top groove of the mid right spindle pulley.
10. Rotate the main belt tension handle 180 degrees to engage belt tension and secure with the ball pin.
11. Close the right and center deck covers and secure with the rubber handles.

# SERVICE

## Main Deck Belt Tension Adjustment

If the main deck belt slips during normal mowing operation, the belt tension will need to be adjusted.

1. Park the power unit on a smooth level surface and lower the mower deck to the ground.
2. Open the center deck cover.
3. Remove the ball pin from the main belt tension handle and rotate the handle 180 degrees to release the main deck belt tension.
4. Move the extension spring hook (A) into the next chain link (B) closer to the main belt tension handle.



5. Rotate the main belt tension handle 180 degrees to engage belt tension and secure with the ball pin.
6. Close the center deck cover and secure with the rubber handles.

## Spindle Belt Tension Adjustment

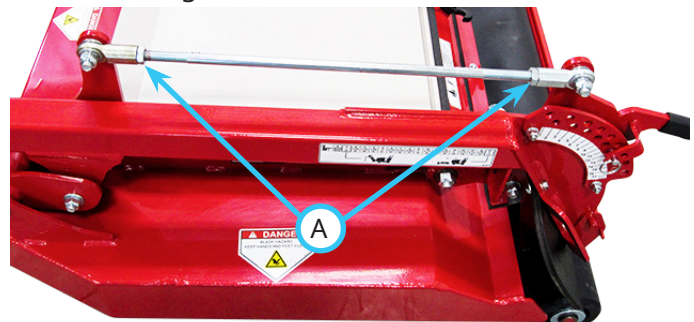
The belt tension springs for the mid left spindle belt and the right spindle belt can be adjusted by moving the spring arm to a different notch in the spring tension bracket. Spring tension should be set at the least amount of tension required for normal operation. If excessive belt slippage occurs in normal operating conditions, increase the belt tension in small increments until belt slippage is eliminated.

## Deck Leveling Procedure

1. Place the mower deck on a hard surface that is clean and level.
2. Set the mower deck cutting height to a position that will allow access to the underside of the deck. Ensure both the left and right height adjustment handles are set to the same position.
3. Ensure both front tires are inflated to the recommended tire pressure.
4. Block the tires and the rear roller to prevent the mower deck from rolling during the leveling procedure.
5. Check the mower blades to make sure they are not bent.
6. Starting at either side of the mower deck, turn the blade so the cutting tip is at the back of the deck. Measure the distance from the flat surface to the blade tip.



7. Rotate the blade so the same tip is at the front of the deck and measure again. The blade tip should be level to 3 mm (1/8 inch) lower at the front. If the measurement at the front is greater than at the rear or is more than 3 mm (1/8 inch) lower than at the rear, the deck must be leveled.
8. To adjust, loosen the right hand and left hand jam nuts (A) on the connecting link and turn the link clockwise or counterclockwise until the correct measurement is reached. When the adjustment is complete, tighten both of the jam nuts against the connecting link rod ends.





# SERVICE

- Repeat steps 6 through 8 for the opposite side of the deck. Adjusting one side of the deck can also affect the opposite side, so recheck both sides of the deck after leveling is complete.

## Tire Pressure

Tire pressure should be maintained between 55-69 kPa (8-10 psi). Pressure variance between the left and right tires can cause an uneven cut.

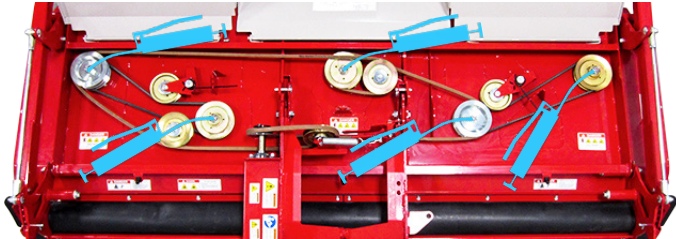
## Lubrication Locations

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.

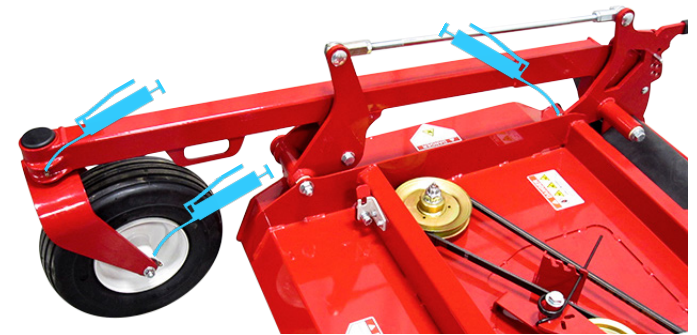
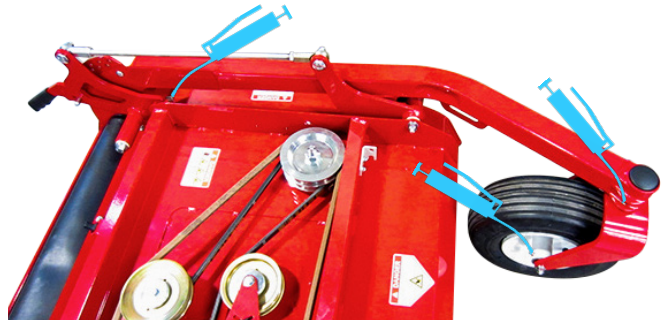
- Grease the five spindles.



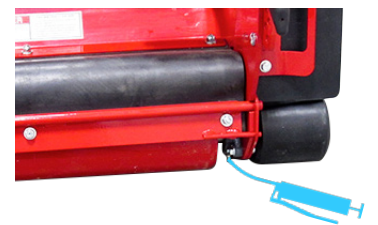
- Grease the drive shaft bearings and the hitch arm pivots. Wipe off any excess grease.



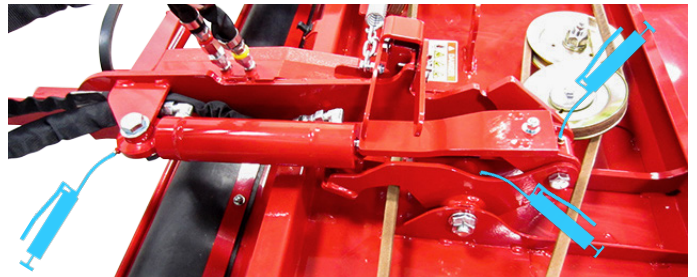
- Grease the left and right wheel axles, the caster pivots, and the carrier frame rear rocker pivots.



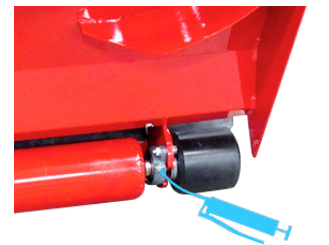
- Grease the right rear roller bearing.



- If the mower deck is equipped with a hydraulic flip up kit, grease the cylinder ends and the flip up rocker bracket.



- Flip the mower deck up to the service position. Grease the left rear roller bearing.



# SERVICE

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## Storage

### Preparing the Attachment for Storage

1. Clean the attachment to remove accumulated clippings, leaves, and dirt.
2. Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
3. Inspect the belts, the spindles, and the mower blades. Repair or replace any damaged or worn components.
4. Inspect the safety decals. Replace any decals that are faded, illegible, or missing.
5. Apply grease to all grease points and wipe off any excess grease.
6. If the mower deck is equipped with a hydraulic flip up kit, inspect the hydraulic hoses for damage or wear. Inspect the hydraulic hose and fittings to ensure tight, leak free connections.
7. 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

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																									
Caster Wheel Pivot	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wheel Axle Bearing	2	^	**		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spindle	5	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hitch Arm Pivot	2	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jackshaft Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rear Roller Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rear Rocker Pivot	2	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hydraulic Flip Up Cylinder Ends	2	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flip Up Rocker Bracket	1	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspection																									
Inspect for Loose, Missing, or Worn Components				✓																					
Inspect the Belts and Pulleys				✓																					
Inspect the Blades and Blade Mounting Bolts Torque to 102-108 Nm (75-80 ft-lbs)				✓																					
Check the Tire Pressure: 55-69 kPa (8-10 psi)				✓																					
Check the Hitch Pivot Bolts (Torque to 205 Nm (151 ft-lbs))					✓		✓			✓		✓		✓		✓		✓		✓		✓		✓	
Inspect the Safety Decals				✓																					
^Grease until fresh grease is visible.																									
**Operation in severe conditions may require more frequent service intervals.																									

# SERVICE

## Maintenance Checklist

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																									
Caster Wheel Pivot	2	1																							
Wheel Axle Bearing	2	^	**																						
Spindle	5	3																							
Hitch Arm Pivot	2	^																							
Jackshaft Bearing	2	1																							
Rear Roller Bearing	2	1																							
Rear Rocker Pivot	2	^																							
Hydraulic Flip Up Cylinder Ends	2	^																							
Flip Up Rocker Bracket	1	^																							
Inspection																									
Inspect for Loose, Missing, or Worn Components																									
Inspect the Belts and Pulleys																									
Inspect the Blades and Blade Mounting Bolts Torque to 102-108 Nm (75-80 ft-lbs)																									
Check the Tire Pressure: 55-69 kPa (8-10 psi)																									
Check the Hitch Pivot Bolts (Torque to 205 Nm (151 ft-lbs))																									
Inspect the Safety Decals																									
^Grease until fresh grease is visible.																									
**Operation in severe conditions may require more frequent service intervals.																									

# SPECIFICATIONS

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## Dimensions

Overall Height . . . . .	49.5 cm (19-1/2 inches)
Overall Length . . . . .	155 cm (61 inches)
Overall Width . . . . .	244 cm (96 inches)
Weight . . . . .	263 kg (580 pounds)
Cutting Width . . . . .	241 cm (95 inches)
Cutting Height Range . . . . .	25 - 127 mm (1 - 5 inches)
Cutting Positions . . . . .	17

## Features

- Flip up deck design
- Three front anti-scalp rollers
- Full length rear roller for even cutting and striping

Visit [ventrac.com/manuals](http://ventrac.com/manuals)  
for the latest version of this operator's manual.  
A downloadable parts manual is also available.



# WARRANTY



## LIMITED WARRANTY - VENTRAC COMMERCIAL EQUIPMENT

Venture Products, Inc., (henceforth referred to as V.P.I.) warrants on the terms and conditions herein, that it will repair, replace, or adjust any part manufactured by Venture Products Inc., and found by Venture Products, Inc., to be defective in material and/or workmanship during the applicable warranty term.

All Ventrac commercial equipment purchased and registered on or after January 1, 2019 will carry a 2-year commercial warranty. The warranty period begins on the date of the original customer purchase:

<b>Ventrac Commercial Equipment</b>	<b>Warranty Term</b>
2100 SSV & Attachments	2-year
3000 Series Tractors & Attachments	2-year
4000 Series Tractors & Attachments	2-year

All Ventrac add-on kits and accessories such as: 3-point hitch, 12V front & rear power outlets, foot pedal, dual wheel kit, etc., will be covered under the above warranty periods provided they are installed by an Authorized Ventrac Dealer. This warranty may be transferred and will carry the remainder of the warranty starting from the original purchase/registration date with the dealership and/or V.P.I.

The engine warranty is covered by its respective engine manufacturer. Please refer to the engine manufacturer's warranty statement that is included in the owner's manual.

For warranty consideration on Ventrac commercial equipment, the equipment, including any defective part, must be returned to an Authorized Ventrac Dealer within the warranty period. The warranty shall extend to the cost to repair or replace (as determined by V.P.I.) the defective part. The expense of pickup and delivery of the equipment, the service call drive time or any transportation expense incurred for the warranty repair is the sole responsibility of the owner and is not covered under warranty by Ventrac and/or V.P.I. Ventrac and V.P.I.'s responsibility in respect to claims is limited to making the required repairs or replacements, and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Ventrac equipment. Proof of purchase may be required by the dealer to substantiate any warranty claim. Only warranty work performed and submitted by an Authorized Ventrac Dealer may be eligible for warranty credit.

This warranty extends only to Ventrac commercial equipment operated under normal conditions and properly serviced and maintained. The warranty expressly does NOT cover: (a) any defects, damage or deterioration due to normal use, wear and tear, or exposure; (b) normal maintenance services, such as cleaning, lubrication, oil change; (c) replacement of service items, such as oil, lubricants, spark plugs, belts, rubber hoses, bearings or other items subject to normal service replacement; (d) damage or defects arising out of, or relating to abuse, misuse, neglect, alteration, negligence or accident; (e) repair or replacement arising from operation of, or use of the equipment which is not in accordance with the operating instructions as specified in the operator's manual or other operational instructions provided by V.P.I.; (f) repair or replacement arising as a result of any operation from Ventrac equipment that has been altered or modified so as to, in the determination of V.P.I., adversely affect the operation, performance or durability of the equipment or that has altered, modified or affected the equipment so as to change the intended use of the product; (g) repair or replacement necessitated by the use of parts, accessories or supplies, including gasoline, oil or lubricants, incompatible with the equipment or other than as recommended in the operator's manual or other operational instructions provided by V.P.I.; (h) repairs or

# WARRANTY

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## LIMITED WARRANTY - VENTRAC COMMERCIAL EQUIPMENT

replacements resulting from parts or accessories which have adversely affected the operation, performance or durability of the equipment; or (i) damage or defects due to or arising out of repair of the Ventrac equipment by a person or persons other than an authorized Ventrac service dealer or the installation of parts other than genuine Ventrac parts or Ventrac recommended parts.

The sole liability of V.P.I. with respect to this warranty shall be the repair and replacement as set forth herein. V.P.I. shall have no liability for any other cost, loss, or damage. In particular V.P.I shall have no liability or responsibility for: (i) expenses relating to gasoline, oil, or lubricants; (ii) loss, cost or expense relating to transportation or delivery of turf equipment from the location of the owner or the location where used by the owner to or from any Authorized Ventrac Dealer; (iii) travel time, overtime, after hours' time or other extraordinary repair charges or charge relating to repairs or replacements outside of normal business hours at the place of business of an Authorized Ventrac Dealer; (iv) rental of like or similar replacement equipment during the period of any warranty repair or replacement work; (v) any telephone or telegram charges; (vi) loss or damage to person or property other than that covered by the terms of this warranty; (vii) any claims for lost revenue, lost profit or additional cost or expense incurred as a result of a claim of breach of warranty; or (viii) attorney's fees.

The remedies of the buyer set forth herein are exclusive and are in lieu of all other remedies. The liability of V.P.I., whether in contract, tort, under any warranty, or otherwise, shall not extend beyond its obligation as set forth herein. V.P.I. shall not be liable for cost of removal or installation nor shall V.P.I. be responsible for any direct, indirect, special or consequential damages of any nature. In no event shall V.P.I. be liable for any sum in excess of the price received for the goods for which a liability is claimed.

There are no representations or warranties which have been authorized to the buyer of the Ventrac commercial equipment other than set forth in this warranty. Any and all statements or representations made by any seller of this equipment, including those set forth in any sales literature or made orally by any sales representative, are superseded by the terms of this warranty. Any affirmation of fact or promise made by V.P.I. or any of its representatives to the buyer which relates to the goods that are the subject to this warranty shall not be regarded as part of the basis of the bargain and shall not be deemed to create any express warranty that such goods shall conform to the affirmation or promise.

No employee, distributor, or representative is authorized to change the foregoing warranties in any way or grant any other warranty on behalf of V.P.I.

Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion on limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty applies to all Ventrac commercial equipment sold by Venture Products Inc.