

*Operator's Manual*

# MS600

*Finish Mower*

*Europe C€*





500 Venture Drive  
Orrville Oh 44667  
www.ventrac.com

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### 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: \_\_\_\_\_

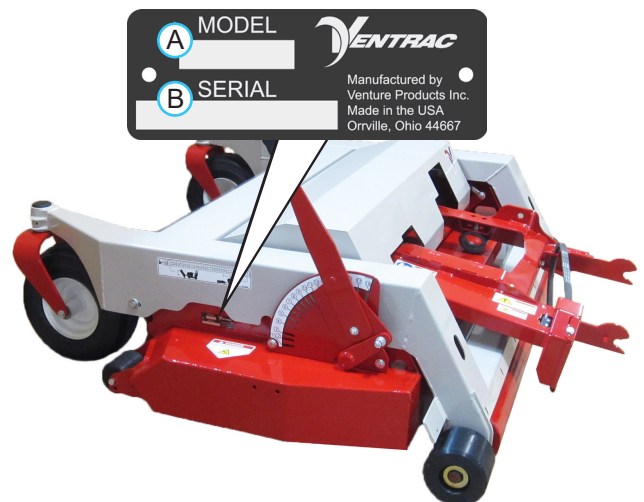
Dealer Phone Number: \_\_\_\_\_

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

Model # (A): \_\_\_\_\_

Serial # (B): \_\_\_\_\_

Affix Part/Serial Number label here.



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# INTRODUCTION



Venture Products Inc. is pleased to provide you with your new Ventrac MS600 mower! We hope that Ventrac equipment will provide you with a ONE Tractor Solution.

Listed below are just some of the items that can provide you *versatility* as you use your MS600. Please visit our website, or contact your authorized Ventrac dealer for a complete list of items available for your new MS600 mower.

Accessories	Item Description	Part Number
	Hydraulic Deck Flip Up Kit	70.8214
	Flat Free Tire/Wheel Assembly (requires 2 per mower)	53.0148

## Product Description

The MS600 mower is designed for the sole purpose of finish mowing and is built to be the best cutting and longest lasting finish mower available. The high strength steel mower deck has an obstruction free grass chamber to minimize buildup and provide easy cleaning. A rugged all steel reinforced carrier frame incorporates a full length rear roller for even cutting and grass striping.

The MS600 features a 60 inch (152 cm) cutting width. Ventrac's Linear Adjustment System provides eighteen cutting height positions from 1" (25 cm) to 5" (127 cm). A single hand adjustment lever allows for a quick change in cutting height selection. A slide release allows the handle to be returned to deck level, preventing it from catching on low branches and shrubs.

The deck can be tilted up 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

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## 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 #1 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 sitting on the power unit seat facing forward.

### 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

## Safety Decals

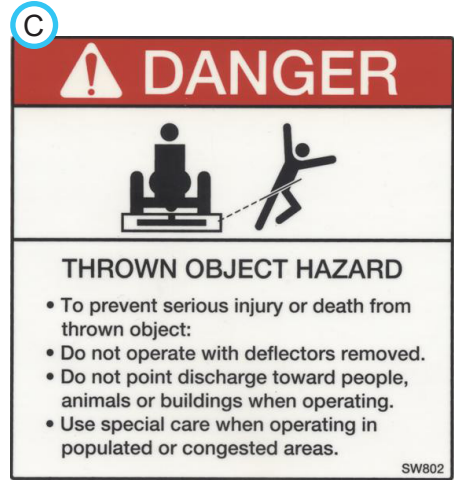
The following safety decals must be maintained on your MS600 mower.

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



Decal	Description	Part Number	Quantity
A	Danger, Shield Missing	00.0062	1
B	Danger, Pinching Hazard	00.0102	1
C	Danger, Thrown Object Hazard	00.0122	1
D	Danger, Keep Hand & Feet Clear	00.0123	4
E	Warning, Moving Parts	00.0216	1
F	Warning, Read Owners Manual	00.0217	1
G	Warning, Do Not Reach	00.0219	1
H	Warning, General Safety	00.0220	1



# 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 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 controls.
- Know how to stop the power unit and all attachments quickly in the event of an emergency.



### Personal Protective Equipment Requirements

It is the responsibility of the owner to be sure that the operators use the proper personal protective equipment while operating the machine. Required personal protective equipment includes, but is not limited to, the following list.



- Wear a certified ear protection device to prevent loss of hearing.
- Prevent eye injury by wearing safety glasses while operating the machine.
- Closed toe shoes must be worn at all times.
- Long pants must be worn at all times.
- When operating in dusty conditions, it is recommended that a dust mask be worn.

### Operation Safety

- Inspect machine before operation. Repair or replace any damaged, worn, or missing parts. Be sure guards and shields are in proper working condition and are secured in place. Make all necessary adjustments before operating machine.
- Some pictures in this manual may show shields or covers opened or removed in order to clearly illustrate any 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 safety devices or operate with shields or covers removed.
- Before each use, verify that all controls function properly and inspect all safety devices. Do not operate if controls or safety devices are not in proper working condition.
- Check parking brake function before operating. Repair or adjust parking brake if necessary.
- Observe and follow all safety decals.
- All 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 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 attachment before operating. Stop 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 all necessary repairs before operating 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 all necessary repairs before operating machine again.

# SAFETY



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



### Operation Safety (continued)

- 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 machine unattended while it is running.
- Always park the machine on level ground.
- Always shut off engine when connecting attachment drive belt to the power unit.
- Never leave the operator's station without lowering the attachment to the ground, setting 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 equipment unattended without lowering the attachment to the ground, setting 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. Material may ricochet back towards the operator.
- Use extra caution when approaching blind corners, shrubs, trees, or other objects that may obscure 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 engine at excessive speed 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.

### Preventing Accidents

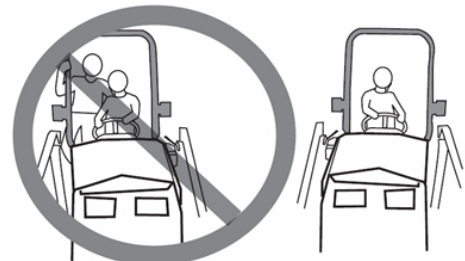


- Clear working area of objects that might be hit or thrown from machine.
- Keep people and pets out of working area.
- Know the work area well before operation. Do not operate where traction or stability is questionable.
- Reduce speed when you are operating over rough ground.
- Equipment can cause 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 machine if you are not in good physical and mental health, if you will be distracted by personal devices, or are under the influence of any substance which might impair decision, dexterity, or judgment.
- Children are attracted to machine activity. Be aware of children and do not allow them in the working 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.



# SAFETY

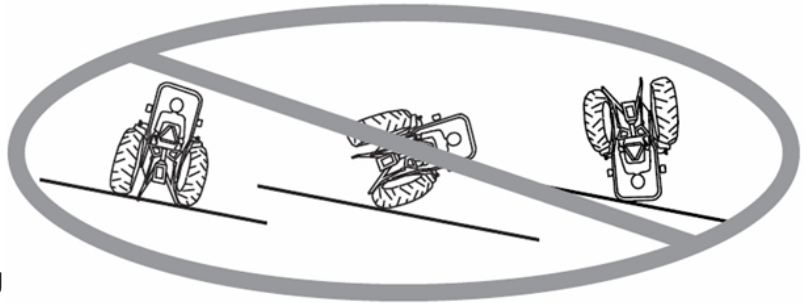


## General Safety Procedures for Ventrac Power Units, Attachments, & Accessories



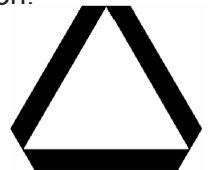
### Operating On Slopes

- 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 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 surface and loose ground will reduce the degree of safety. Do not drive where 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.
- Transport machine with attachment lowered or close to the ground to improve stability.
- While operating on slopes, drive in an up and down direction when possible. If turning is necessary while driving across slopes, reduce speed and turn slowly in the downhill direction.
- Assure 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 doubt of safety conditions, discontinue machine operation until a time when 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 machine into a truck or trailer.
- Use full width ramps for loading 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, cable, or ropes. Both front and rear straps should be directed down and outward from the machine.
- Shut off fuel supply to power unit during transport on truck or trailer.
- If equipped, turn the battery disconnect switch to the Off position to shut off electrical power.

# SAFETY



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



### Maintenance

- 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.
- 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 parking brake, shut off engine, and remove the ignition key. Make sure all moving parts have come to a complete stop before cleaning, inspection, 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 all 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 excessive 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 speed 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 hands, feet, and clothing away from all power-driven parts.
- Dispose of all fluids in accordance with local laws.

### 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 machine while smoking or at a location near flames or sparks.
- Always refuel the machine outdoors.
- Do not store machine or fuel container indoors where fumes or fuel can reach an open flame, spark, or pilot light.
- Only store fuel in an approved container. Keep out of reach of children.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
- Remove 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 fuel cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never remove fuel cap while on a slope. Only remove when parked on a level surface.
- Replace all fuel tank and container caps securely.

# SAFETY



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



### Fuel Safety (continued)

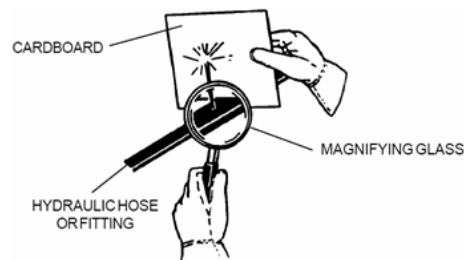
- Do not overfill fuel tank. Only fill to bottom of fuel neck, do not fill fuel neck full. Overfilling of fuel tank could result in engine flooding, fuel leakage from the tank, and/or damage to the emissions control system.
- If fuel is spilled, do not attempt to start the engine. Move the power unit away from the fuel spill and avoid creating any source of ignition until fuel vapors have dissipated.
- If the fuel tank must be drained, it should be drained outdoors into an approved container.
- Dispose of all fluids in accordance with local laws.
- Check all 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 all 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 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.



- Hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, remove attachments, engage parking brake, disengage weight transfer system (if equipped), shut off engine, and remove 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.
- Dispose of all fluids in accordance with local laws.

# SAFETY

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## MS600 Safety Procedures



### Cutting Unit Safety

- Rotating Blades: Contact with the rotating mower blades or other moving parts may cause personal injury. Keep hands and feet away.
- Rotation of one blade may cause another blade to rotate.
- Thrown Object Hazard: Do not point discharge toward people, animals, or buildings when operating. Never operate with the deflectors removed.
- When not mowing, always shut off the PTO to stop the mower blades.
- Never raise the mower deck with the blades running.



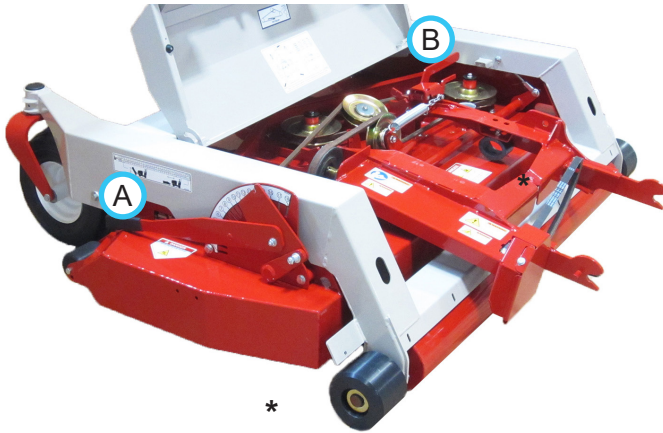
### Optional Hydraulic Flip Up Kit Safety

- 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 SDLA 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 hydraulic flip up kit while the deck is in the flip up (service) position.

# OPERATIONAL CONTROLS

## Operational Control Location\*

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.



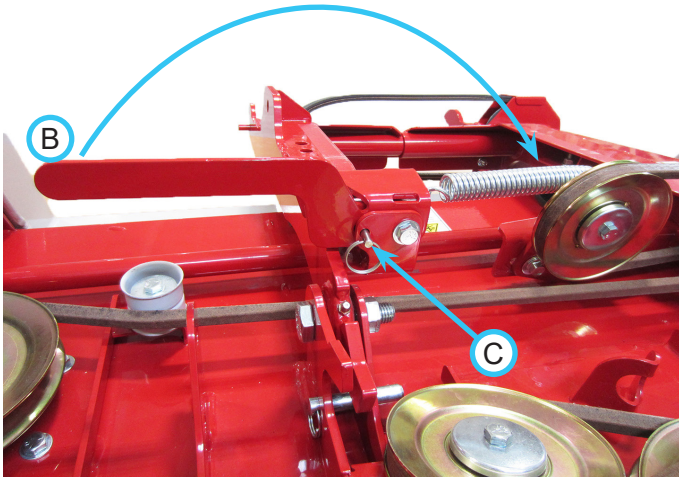
- A. Height Adjustment Handle
- B. Belt Tension Handle

### Height Adjustment Handle (A)

The height adjustment handle (A) is used to raise or lower the mower deck and to lock the mower deck at the desired cutting height.

### Belt Tension Handle (B)

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



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

## Primary SDLA Control Lever

Pull the power unit's primary SDLA lever to the left to raise the power unit front hitch and MS600 mower deck. Push the lever to the right to lower the power unit front hitch and 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 operation 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 1/2 to 3/4 of maximum capacity.

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

# GENERAL OPERATION

## Daily Inspection

### **⚠ WARNING**

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

1. Park 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 mower. Look for loose or missing hardware, damaged components, or signs of wear.
3. If equipped, inspect hydraulic hoses and fittings to ensure tight, leak free connections.
4. Inspect the drive belts and mower blades. Belts should be in good condition. Blades should be sharp and securely fastened. Service as required.
5. Check tires for proper inflation.
6. Perform daily inspection for the power unit. Refer to the power unit operator's manual.
7. Test the power unit's operator safety interlock system\*.

## Attaching

1. Make sure the mower deck height adjustment handle is set to position # 18.
2. Drive the power unit slowly forward into the hitch arms of the mower deck. Align the lift arms of the power unit with the mower 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 belt tensioner.
7. If mower deck is equipped with a hydraulic flip up kit, wipe hose ends clean, and connect to the power unit's hydraulic quick couplers. Connect the hoses and quick couplers so the red indicators are paired together and the yellow indicators are paired together.
8. Engage the power unit's weight transfer system\*.

## Detaching

1. Park the power unit on a level surface and set the parking brake.\*
2. Place the mower deck height adjustment handle in position # 18.
3. Disengage the weight transfer system\*.
4. Lower the mower deck to the ground.
5. Shut off power unit engine.
6. Disengage the PTO belt tensioner.
7. Remove the attachment belt from the PTO drive pulley of the power unit.
8. If equipped with optional hydraulic flip up kit, release hydraulic pressure by moving the secondary SDLA lever to the left and right, then disconnect the hydraulic quick couplers from the power unit and store the hose ends in the holes in the right hitch arm brace.
9. Disengage the front hitch locking lever.\*
10. Restart power unit and slowly back away from the mower deck. A side to side movement of the steering wheel may aid in disengagement.

## Mowing and Operating Procedure

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

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. 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 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.

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



# GENERAL OPERATION

## Transport of Mower

Always disengage the power unit PTO before transporting the mower deck.

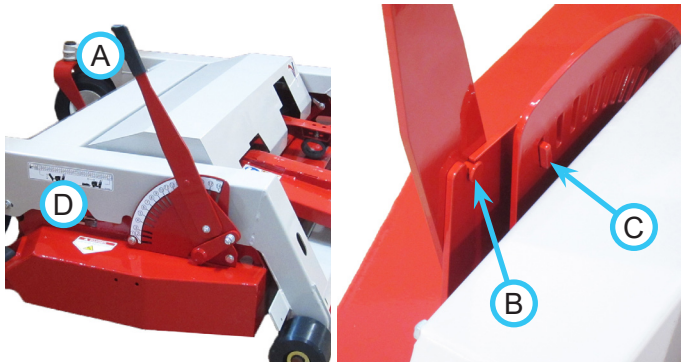
Transport the mower deck with the power unit front hitch and mower fully raised to reduce wear of the equipment. Travel slowly when transporting over undulating or rough surfaces to maintain control of power unit and to reduce the shock to the power unit and mower deck.

## Cutting Height Adjustment

### **⚠ WARNING**

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

1. Lift the height adjustment handle (A) upward and engage the pin (B) into the notch in the height adjuster plate.

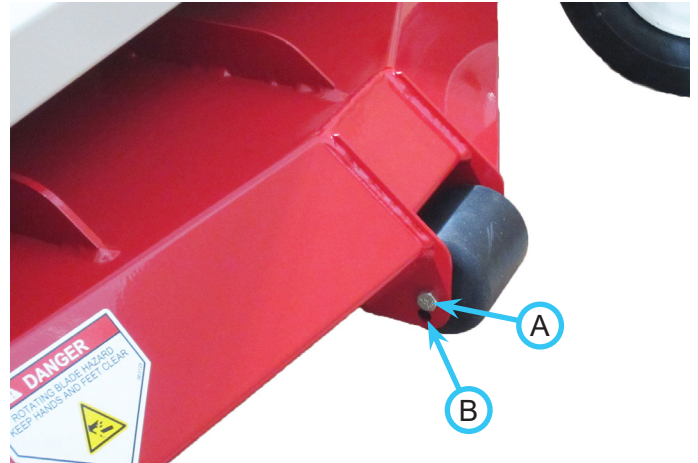


2. Pull the height adjustment handle outward to release the tab (C) on the height adjuster plate from the slot on the height adjust selector plate.
3. Raise or lower the height adjustment handle to the desired cutting height and insert the tab on the height adjuster plate into the slot on the height adjust selector plate. The decal (D) on the side of the carrier frame lists the cutting height along with the selector plate position number for easy reference.
4. Disengage the pin on the height adjustment handle from the notch in the height adjuster plate and rotate the height adjustment handle down to rest on the main deck.

## Front Roller Position

The three front rollers on the mower deck have an upper or lower mounting position. The correct mounting position is dependent on the selected cutting height. To prevent scalping, mount the front rollers in the recommended position. All three front rollers should be mounted in the same position.

If the selected cutting height is 1-3/4" (44mm) or lower, mount the front rollers in the upper mounting hole (A).



If the selected cutting height is 2" (51 mm) or higher, mount the front rollers in the lower mounting hole (B).

## Mulching Kit (Optional Accessory)

Mulching procedures may vary greatly due to climate, type of grass, and soil conditions. It is generally best to mow frequently and in dry conditions. Leaves are usually mulched and dispersed better when some grass is cut with the leaves.

Mulching often requires more power than normal mowing. Reduce travel speed and remove less grass than normal when mulching. When mulching wet and/or thick grass, more frequent cleaning of the underside of the deck may be necessary.

Mulching blades are recommended for mulching. Blades must be kept sharp and in good condition for best results.

# SERVICE

## ⚠ WARNING

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



## Attention

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

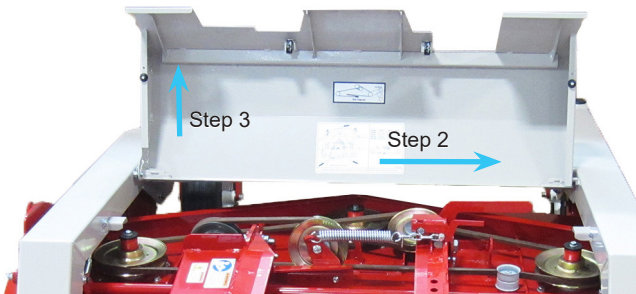
### Cleaning and General Maintenance

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.

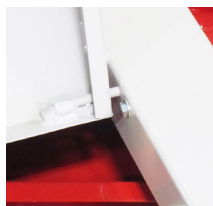
If washing the deck, do not spray directly into bearings or seals. After washing, it is important to run the mower so that water does not reside on seals of bearings for the drive system. When washing is complete, return the deck to the operating position. Move the power unit and mower to a clean debris-free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

### Main Deck Cover Shield Removal and Installation

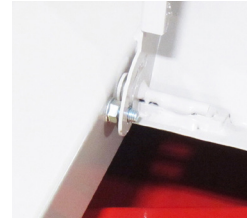
1. Open the main deck cover shield.
2. Push the shield to the right until the left pin clears the carrier frame.



3. Lift the left side of the cover up, then slide to the left to remove the right pin from the carrier frame.
4. Place the shield in a location where it will not get scratched or damaged.
5. To reinstall the cover, insert the right pin into the hole in the right carrier frame arm.

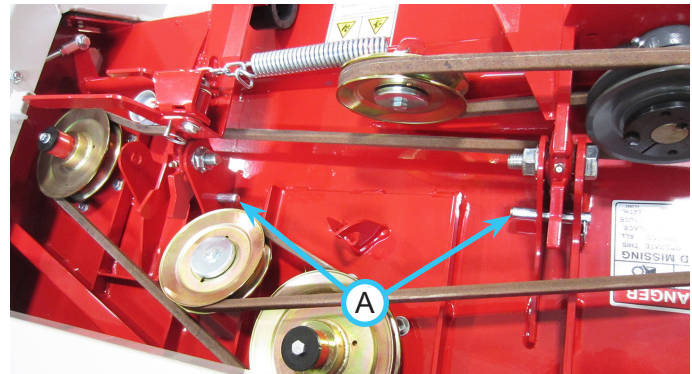


6. Push against the spring tension until the left pin clears the left carrier frame arm.
7. Lower the left side of the cover until the pin can be inserted into the hole in the left carrier frame arm. Note: the bolt in the carrier frame must engage in the radial slot in the end of the cover.

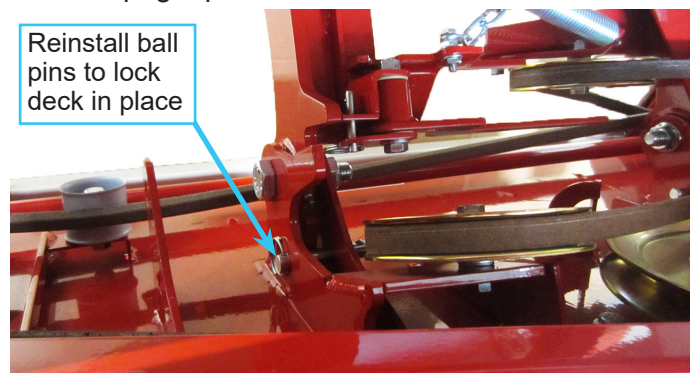


### Deck Flip-up Procedure (Service Position) Manual Flip-up Procedure

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



7. Close the main deck cover shield.
8. Start the power unit's engine and raise the power unit front hitch to its highest position.
9. Lift the mower deck up to a near vertical position and reinstall the two ball pins to lock the deck in the upright position.

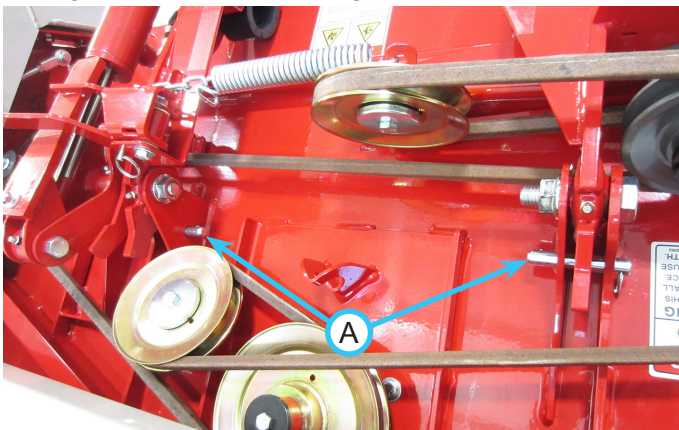


# SERVICE

- To return the deck to the operating position, remove the two ball pins and rotate the deck to the operating position.  
NOTE: if the front hitch lowers due to hydraulic drift, it may be necessary to start the engine and raise the mower deck before removing the ball pins.
- Lower the mower deck to the ground.
- Reinstall the two ball pins in the hitch arm mounting brackets.
- Ensure the belt is properly seated in the pulley grooves, rotate the belt tensioner handle 180 degrees to engage belt tension, and secure with the ball pin.

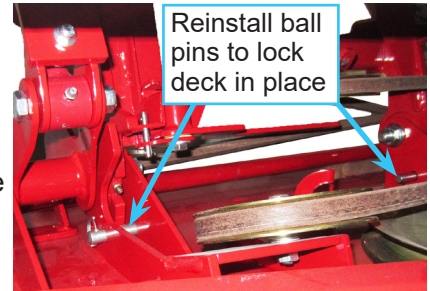
## Optional Hydraulic Flip-up Procedure

- Park the power unit on a smooth level surface.
- Engage the parking brake, shut off the engine, and remove the key from the ignition switch.
- Place the mower deck height adjustment handle into position # 1.
- Open the main deck cover shield.
- Remove the ball pin from the belt tensioner handle and rotate the handle 180 degrees to release the belt tension and release the cylinder lock bracket.
- Remove the two ball pins (A) from the left and right hitch arm mounting brackets.



- Close the main deck cover shield.
- Return to the operator's seat, start the power unit's engine, and raise the power unit front hitch to its highest position.
- Pull the secondary SDLA lever to the left and hold until the deck stops moving at a near vertical position.  
NOTE: it may be necessary to operate the power unit engine at maximum RPM when flipping the deck up.
- Shut off the power unit engine and remove the key from the ignition.

- Reinstall the two ball pins to lock the deck in the upright position.  
NOTE: you may need to push the top of the deck back slightly to install the pins.



- To return the deck to the operating position, remove the two ball pins, return to the power unit's seat, start the power unit 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 engine and raise the mower deck before removing the ball pins.
- Lower the mower deck to the ground.
- Shut off the power unit engine and remove the key from the ignition switch.
- Reinstall the two ball pins in the hitch arm mounting brackets.
- Ensure the belt is properly seated in the pulley grooves, rotate the belt tensioner handle 180 degrees to engage belt tension, and secure with the ball pin.

## Mower Blade Inspection/Replacement

### ⚠ CAUTION

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

- Rotate the mower deck up to the service position.
- Inspect the mower blades to ensure the cutting edges are sharp. If blades are dull or damaged, they must be removed and sharpened or replaced.
- 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.
- Loosen the blade bolt counterclockwise and remove the blade for sharpening or replacement.
- 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.
- Torque the blade bolt to 100 ft-lbs (136 Nm).

## Mower Blade Sharpening

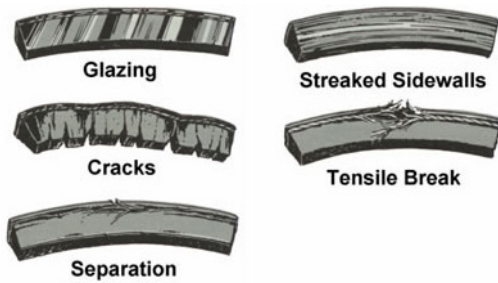
Blades should be sharpened and balanced by a professional. Maintain balance, same bevel, and length of sharpened surface.

# SERVICE

## Belt Inspection

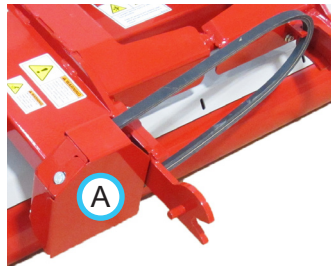
Inspecting the drive belts of the mower can prevent sudden belt failure by finding problems before they cause a belt to break.

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.



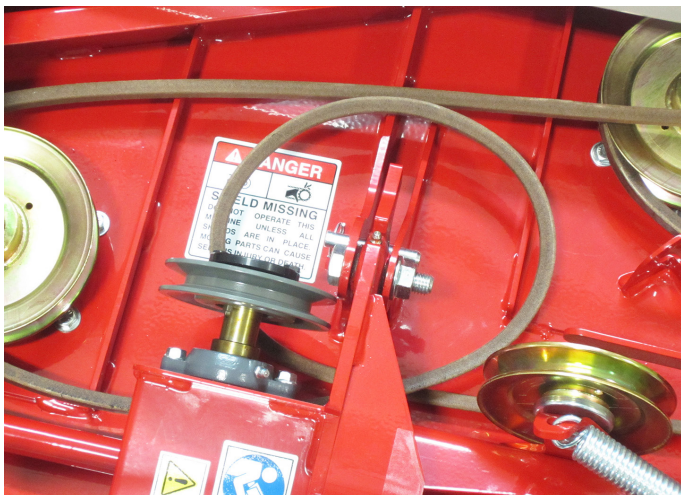
## Drive Belt Replacement

1. Detach the mower deck 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.

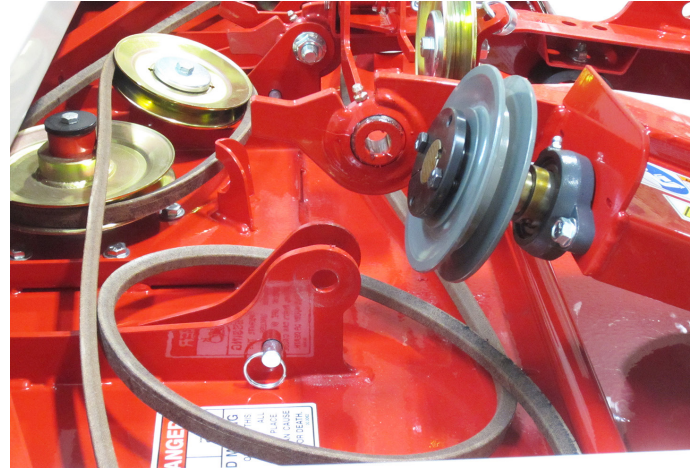


## Deck Belt Replacement

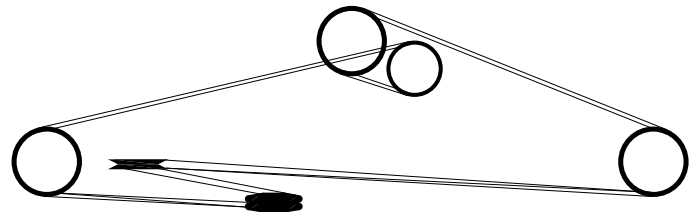
1. Detach the mower deck from the power unit.
2. Open the main deck cover shield.
3. Remove the ball pin from the belt tensioner handle and rotate the handle up to release the belt tension.
4. Remove the belt from the belt tensioner pulley and slide the loop of the deck belt over the end of the left hitch arm so that the belt is looped around the left hitch arm mounting brackets.



5. Remove the left hitch arm mounting bolt and lift the hitch arm up away from the mounting brackets.



6. Pull the deck belt out through the opening between the hitch arm and the mounting brackets.
7. Remove the belt from the spindle pulleys, lift up slightly on the left and right hitch arms so the rear loop of the belt clears the hitch arm bumpers, and remove the belt from around the hitch arms.
8. 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.



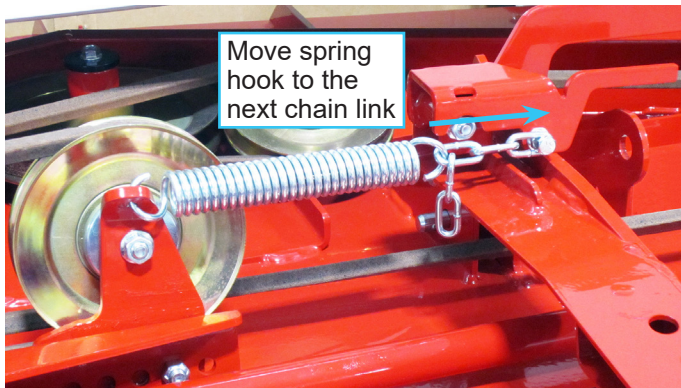
9. Lift the front of the left hitch arm up away from the mounting brackets and loop the belt around the left hitch arm mounting brackets as shown in the previous pictures.
10. Reinstall the left hitch arm bolt and nut and torque to 151 ft-lbs (205 Nm).
11. Place the belt loop onto the drive shaft pulley and the belt tensioner pulley.
12. Check to ensure the belt is routed properly and seated in the groove of each pulley.
13. Rotate the belt tensioner handle 180 degrees to engage belt tension and secure with the ball pin.

# SERVICE

## Deck Belt Tension Adjustment

If the 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. Engage the parking brake, shut off the engine, and remove the key from the ignition switch.
3. Open the main deck cover shield.
4. Remove the ball pin from the belt tensioner handle and rotate the handle up to release the belt tension.
5. Move the extension spring hook into the next chain link closer to the belt tensioner handle.



6. Rotate the belt tensioner handle down to engage belt tension and secure with the ball pin.
7. Close the main deck cover shield.

## Deck Leveling Procedure

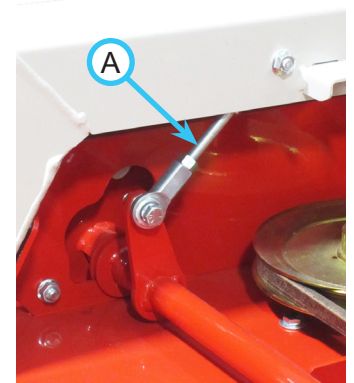
### ⚠ CAUTION

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

1. Place the mower deck on a hard surface that is clean and level.
2. Place the mower deck height adjustment handle into position # 18.
3. Ensure both front tires are inflated to the recommended tire pressure.
4. Block the tires and rear roller to prevent the mower deck from rolling during 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.



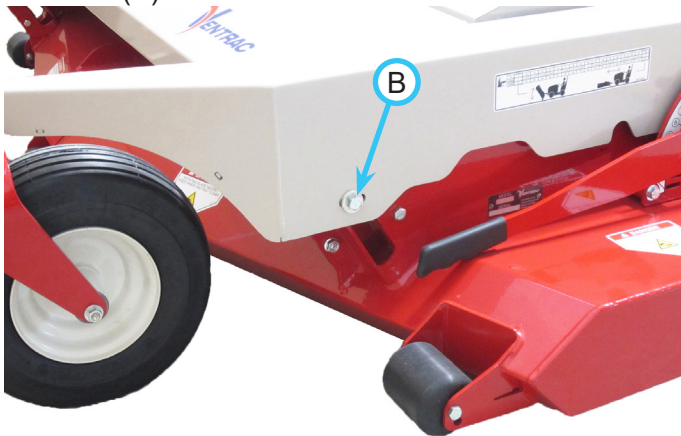
7. Move to the opposite side of the mower deck and turn that blade so the cutting tip is at the back of the deck. If this distance measures differently from the first side, adjust the height adjustment linkage (A) directly above on the top side of the deck until the measurement is the same as the first side.



8. Once the deck has been leveled side to side, rotate the same blade tip to the front of the deck and measure. The blade tip should be level to 1/8" (3 mm) lower at the front. If the measurement at the front of the deck is higher or more than 1/8" (3 mm) lower, the deck must be leveled.

# SERVICE

9. To adjust the front of the deck, loosen the cross bolts (B) in the carrier frame.



Move the bolts forward in the slots to lower the deck or move the bolts rearward in the slots to raise the deck. **Note:** slight movement of the bolt in the front carrier slots will make a significant difference in the front deck height.

10. After deck has been leveled, make sure the cross bolts in the carrier frame have been tightened and the nuts on the rear height adjustment links have been locked against the rod ends.

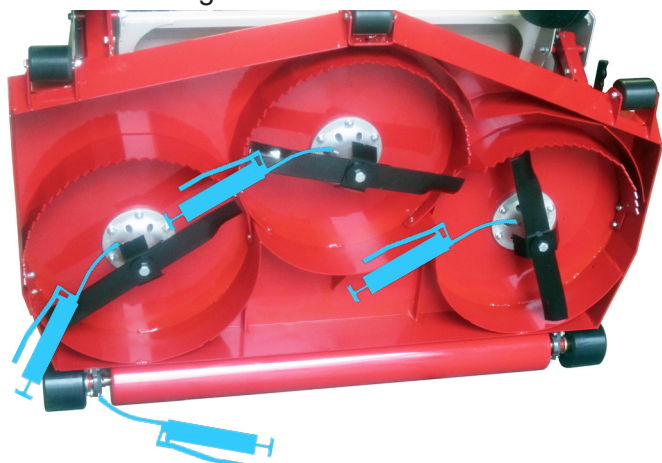
## Tire Pressure

Tire pressure should be maintained between 8-10 psi (55-69 kPa). 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. Refer to the maintenance schedule for service intervals and amount of grease.

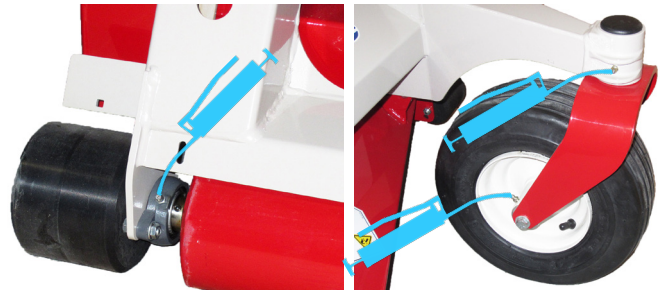
1. Rotate the mower deck up to the service position.
2. Grease the three spindles and the right rear roller bearing.



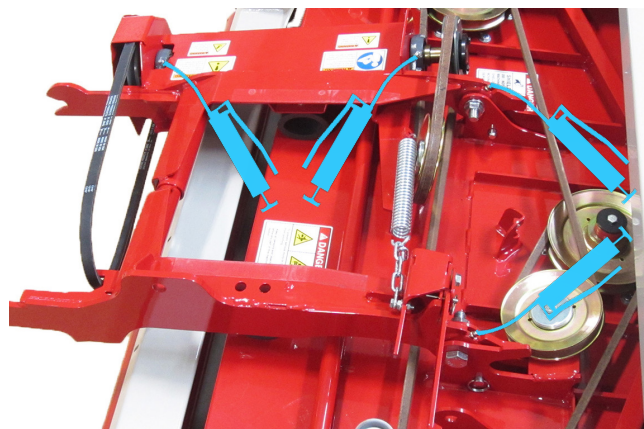
3. If the mower deck is equipped with a hydraulic flip-up kit, grease the flip-up rocker bracket.



4. Return the deck to the operating position and lower to the ground.
5. Grease the left rear roller bearing, the left and right caster wheel pivots, and the left and right wheel axles.

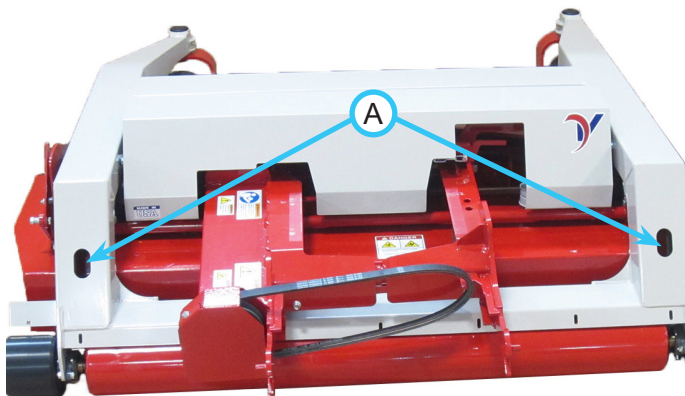


6. Grease the drive shaft bearings and the hitch arm pivots. Wipe off any excess grease.

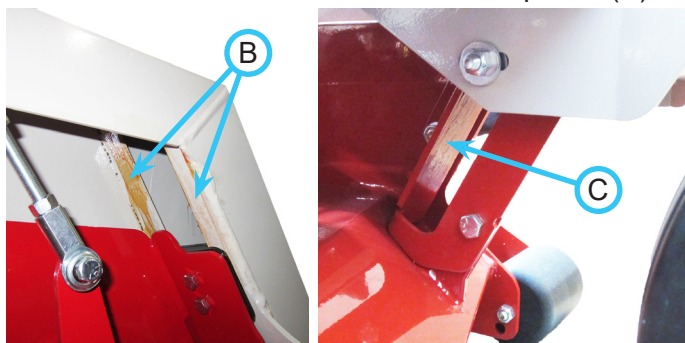


# SERVICE

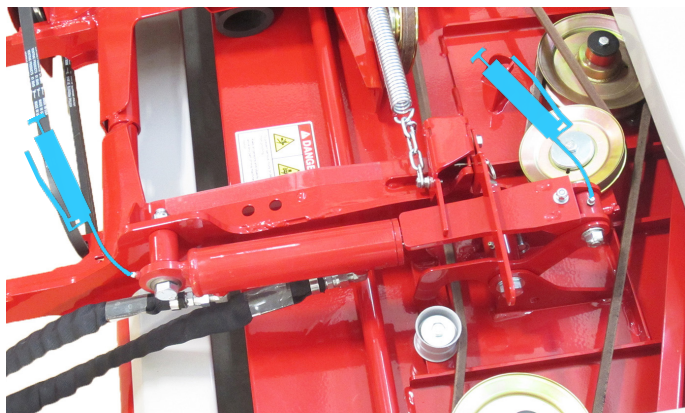
- Place the mower deck height adjustment handle into position # 18.
- Clean and apply grease to the back side of the rear carrier frame/mower deck slide plates through the access holes (A) in the carrier frame.



- Place the mower deck height adjustment handle into position # 1 and open the main deck cover shield.
- Clean and apply grease to the front side of the rear carrier frame/mower deck slide plates (B).



- Clean and apply grease to the back side of the front carrier frame/mower deck slide plates (C).
- If the mower deck is equipped with a hydraulic flip-up kit, grease the cylinder ends. Wipe off any excess grease.



## Storage

### Preparing the Mower for Storage

- Clean the mower deck and frame.
- Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
- Inspect belts, spindles, and mower blades. Repair or replace any damaged or worn components.
- Inspect safety decals. Replace any decals that are faded, illegible, or missing.
- Apply grease to all grease points and wipe off any excess grease.
- If equipped with hydraulic flip-up kit, inspect the hydraulic hoses and fittings for damage or wear. Connections must be tight and leak free. Replace damaged or worn components.

### Removing the Mower from Storage

- Clean the mower deck to remove any accumulated dust or debris.
- Inspect the mower as instructed in the daily inspection section of this manual.
- Test the mower to ensure all 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 1000 Hours	Yearly	
																										Grease & Lubrication: See Lubrication Section
Caster Wheel Pivot	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wheel Axle Bearing	2	^	**		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rear Roller Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jackshaft Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spindle	3	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hitch Pivot	2	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Deck Slide	4	%	**		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hydraulic Flip-up Cylinder Ends	2	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flip-up Rocker Bracket	1	^			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspection																										
Inspect for Loose, Missing, or Worn Components				✓																						
Inspect Belts, Pulleys, Blades, and Blade Retaining Bolts. Torque to 100 ft-lbs (136 Nm)				✓																						
Check Tire Pressure - 8-10 psi (55-69 kPa)				✓																						
Check Hitch Pivot Bolts. Torque to 151 ft-lbs (205 Nm)						✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
Inspect Safety Decals				✓																						
** Operation in severe conditions may require more frequent service intervals.																										
^ Grease Until Fresh Grease is visible																										
% Clean and relubricate with a thin film of grease																										

## Maintenance Checklist

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 1000 Hours	Yearly	
																										Grease & Lubrication: See Lubrication Section
Wheel Swivel Bearing	2	1																								
Wheel Axle Bearing	2	^	**																							
Rear Roller Bearing	2	1																								
Jackshaft Bearing	2	1																								
Spindle	3	3																								
Hitch Pivot	2	^																								
Deck Slide	4	%	**																							
Hydraulic Flip-up Cylinder Ends	2	^																								
Flip-up Rocker Bracket	1	^																								
Inspection																										
Inspect for Loose, Missing, or Worn Components																										
Inspect Belts, Pulleys, Blades, and Blade Retaining Bolts. Torque to 100 ft-lbs (136 Nm)																										
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Check Hitch Pivot Bolts. Torque to 151 ft-lbs (205 Nm)																										
Inspect Safety Decals																										
** Operation in severe conditions may require more frequent service intervals.																										
^ Grease Until Fresh Grease is visible																										
% Clean and relubricate with a thin film of grease																										



# SPECIFICATIONS

## Dimensions

Overall Height . . . . .	18-1/4 inches (46.4 cm)
Overall Length . . . . .	62-5/8 inches (159 cm)
Overall Width . . . . .	74-5/8 inches (189.5 cm)
Weight . . . . .	.490 pounds (222.3 kg)
Cutting Width . . . . .	60 inches (152.4 cm)
Cutting Height Range . . . . .	.1 - 5 inches (25 - 127 mm)
Cutting Positions. . . . .	18

## Features

- Flip-up deck design
- Three front anti-scalp rollers
- Full length rear roller for even cutting and striping
- Single lever linear height adjustment system
- Full floating deck
- Field serviceable spindles


## Noise Emissions<sup>1,2</sup>

Measured Sound Power Level, dB(A)	104.0
Sound Power Uncertainty, dB(A)	0.8
Sound Pressure Level at Operator's Ear, dB(A)	90.3
Sound Pressure Uncertainty, dB(A)	2.0

Note 1: Noise emissions determined per EN ISO 5395-1.

Note 2: Specifications subject to change without notice.

## EC Declaration of Conformity

Manufacturer	Venture Products, Inc. 500 Venture Drive Orrville, OH 44667 USA
Authorized Representative (also authorized to compile the technical file)	Lars Persson LAPAB MASKIN AB Box 46, S-734 22 Hallstahammar Flädervägen 5, 734 38 Hallstahammar SWEDEN
Technical File Keeper	Ryan Steiner Venture Products, Inc. 500 Venture Drive Orrville, OH 44667 USA
Description	Finish Mower Attachment
Model Name	MS600 Mower
Model Number	39.55116
Serial Number	MS600-Bxxxxx
This Product Conforms to Directives	2006/42/EC 2000/14/EC
This Product Conforms to Harmonized Standards	EN ISO 5395-1 EN ISO 5395-3
Ryan Steiner Director of Engineering 	12-July-2017 Orrville, OH USA

# 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 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, 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 equipment, service call drive time or any transportation expense incurred for 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 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 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 Ventrac equipment by person or persons other than an authorized Ventrac service dealer or the installation of parts other than genuine Ventrac parts or Ventrac recommended parts.

# WARRANTY

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## LIMITED WARRANTY - VENTRAC COMMERCIAL EQUIPMENT

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, lubricants; (ii) loss, cost or expense relating to transportation or delivery of turf equipment from the location of owner or location where used by 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 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 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.