

Operator's Manual

# HE302 / HE482

Power Bucket





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

Visit [ventrac.com/manuals](http://ventrac.com/manuals) for the latest version of this operator's manual.

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: \_\_\_\_\_

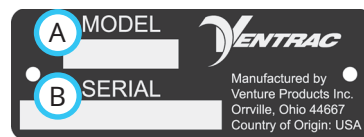
Dealer Address: \_\_\_\_\_

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

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

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

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



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# INTRODUCTION



Ventrac Products Inc. is pleased to provide you with your new Ventrac power bucket! 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 power bucket.

Accessories	Item Description	Part Number
	Power Bucket Teeth Kit (HE302 / HE482)	70.8124
	Power Bucket Grapple Kit* (HE482 only)	70.8123
	Power Bucket Extension Kit* (HE482 only)	70.8159

\*The bucket extension kit and the grapple kit cannot be installed on the bucket at the same time.

## Product Description

The Ventrac power bucket is designed solely for the purposes of digging, scooping, and transporting materials such as soil, mulch, sand, and gravel.

The power bucket is hydraulically controlled, allowing for smooth, effortless operation. The power bucket is designed to sit upright after detachment, with the lift arms in the proper position for reattachment.

If the power bucket is used on a power unit equipped with weight transfer, increasing the weight transfer setting on the power unit will increase the lifting capacity of the power bucket.

Optional teeth can be mounted on the power bucket's cutting edge to help break up and loosen compacted soil.

An optional extension kit can be mounted on the power bucket to increase the bucket capacity (volume) when using for lighter materials such as mulch.

An optional grapple kit<sup>^</sup> can be mounted on the power bucket to allow the power bucket to pinch and carry logs, brush, or debris.

<sup>^</sup>The optional grapple kit requires the power unit to be equipped with dual hydraulic auxiliary couplers.

## Why Do I Need an Operator's Manual?

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

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

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

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

# INTRODUCTION

## Using Your Manual

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

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

### SYMBOL DEFINITIONS



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

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

### SIGNAL WORD DEFINITIONS

#### **DANGER**

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

#### **WARNING**

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

#### **CAUTION**

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

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

**NOTE** emphasizes general information that is worthy of special attention.

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

## Manual Glossary

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

# SAFETY

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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.
- Additional PPE may be required. Refer to the product safety procedures for any additional requirements.

### Operation Safety

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

# SAFETY

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



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

# SAFETY

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



- Keep people and pets out of the working area.
- Know the work area well before operation. Do not operate where traction or stability is questionable.
- Reduce speed when you are operating over rough ground.
- Equipment can cause serious injury and/or death when improperly used. Before operating, know and understand the operation and safety of the power unit and the attachment being used.
- Do not operate the machine if you are not in good physical and mental health, if you will be distracted by personal devices, or if you are under the influence of any substance which might impair your decisions, dexterity, or judgment.
- Children are attracted to machine activity. Be aware of children and do not allow them in the work area. Turn off the machine if a child enters the work area.

### Keep Riders Off

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

### Operating On Slopes

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



# SAFETY

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



### 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.
- 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.

# SAFETY

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



- 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.
- 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.

# SAFETY

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



- 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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## HE302 / HE482 Safety Procedures



- 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 SDLA lever left and right to relieve auxiliary hydraulic pressure, and disconnect the auxiliary hydraulic quick couplers.
- Use very slow ground speeds when digging or moving materials. If the power bucket engages a lodged rock or other object with the machine moving at a fast speed, a sudden deceleration of the machine could cause injury to the operator and/or damage to the equipment.
- To balance the power unit and keep all the wheels securely on the ground while using the power bucket, adequate rear ballast or an appropriate implement mounted on a 3-point hitch is necessary. If you are using the power bucket on an optional 3n1 attachment for the rear 3-point hitch, adequate front ballast or an appropriate attachment mounted on the front hitch is necessary.

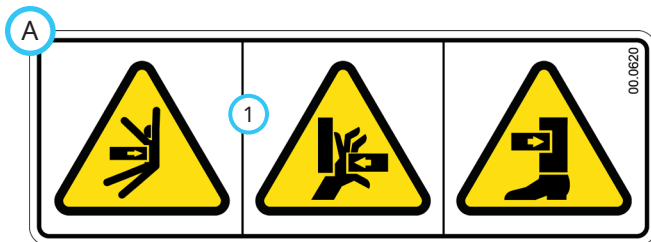
# SAFETY

## Safety Decals

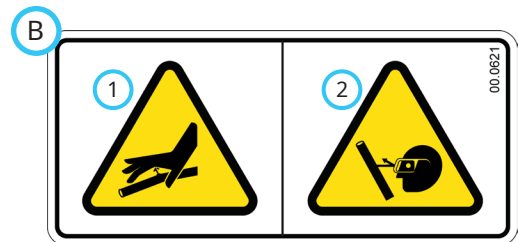
The following safety decals must be maintained on your attachment.

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.

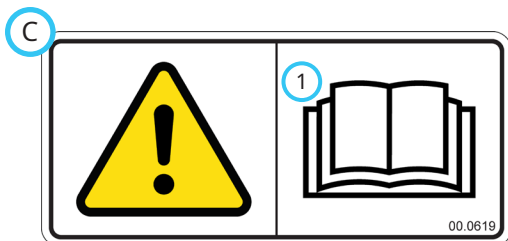
When new components are installed, be sure that current safety decals are affixed to the replacement components.



1. Pinching or crushing hazard.



1. High pressure fluid hazard - keep your body and hands away from suspected hydraulic leaks.
2. Wear eye protection when inspecting the hydraulic system for leaks.



1. Warning - Read the operator's manual.

Decal	Description	Part Number	Quantity
A	Pinching or Crushing Hazard	00.0620	1
B	High Pressure Fluid Hazard	00.0621	1
C	Read Operator's Manual	00.0619	1

# OPERATIONAL CONTROLS

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## Primary SDLA Control Lever

The primary SDLA control lever\* controls the raising and lowering of the power bucket. Pull the control lever to the left to raise the power bucket. Push the control lever to the right to lower the power bucket. To place the bucket in float, push the control lever to the right until the float detent locks the control lever in place.

## Secondary SDLA Control Lever

The secondary SDLA control lever\* controls the rotation of the bucket. Pull the control lever to the left to roll the bucket back for carrying material. Push the control lever to the right to tip the bucket forward and dump the load of material.

## Dual Front Hydraulic Auxiliary Switch

The optional dual front hydraulic auxiliary switch^ is used to select the function of the secondary SDLA control lever when the power bucket is equipped with an optional grapple kit.

The secondary SDLA control lever controls the normal bucket functions until the dual front hydraulic auxiliary switch is depressed.

Press the dual front hydraulic auxiliary switch and push the secondary SDLA control lever to the right to open the grapple jaws. Press the dual front hydraulic auxiliary switch and pull the secondary SDLA control lever to the left to close the grapple jaws. Release the button to return to normal operation.

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

^The dual front hydraulic auxiliary switch is required to operate a power bucket that is equipped with an optional grapple kit.

# GENERAL OPERATION

## Daily Inspection

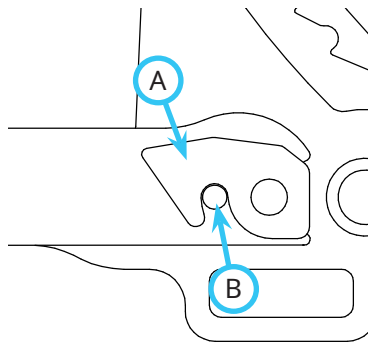
### **⚠ WARNING**

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

1. Park the machine on a level surface, with the engine shut off and all fluids cold.
2. Perform a visual inspection of both the power unit and the attachment. Look for loose or missing hardware, damaged components, or signs of wear.
3. Inspect the hydraulic hoses and the hydraulic fittings to ensure tight, leak free connections.

## Attaching

1. Drive the power unit slowly forward into the hitch arms of the attachment. Align the lift arms of the power unit with the attachment hitch arms by raising or lowering the front hitch and complete the engagement.
2. Once completely engaged, move the front hitch latch lever\* to the locked position. The latch (A) must lock over the attachment's hitch arm pin (B).
3. Engage the parking brake\* and shut off the engine.
4. Wipe the hose ends clean and connect to the power unit's hydraulic quick couplers. If equipped, connect the hoses and the quick couplers so the colored indicators are paired together (red to red, etc.).
5. Add ballast to the rear of the power unit to ensure proper balance and stability with a loaded bucket.



**4000 Series:** Install four Ventrac weights on the rear hitch weight bar or three Ventrac weights on the rear 3-point hitch (if equipped).

**3000 Series:** Install two Ventrac weights onto the optional rear weight bracket. Rear weight brackets are available for all 3000 series power units.

## Detaching

1. Park the power unit on a level surface and engage the parking brake.\*
2. Disengage the power unit's weight transfer.
3. Lower the attachment to the ground.
4. Shut off the power unit engine.
5. Disconnect the hydraulic quick couplers from the power unit and store the hoses looped over the bucket. The optional grapple kit has hose end storage holes in the right mounting bracket.
6. Disengage the front hitch locking lever.\*
7. Restart the power unit and slowly back away from the attachment. A side to side movement of the steering wheel may aid in disengagement.
8. **3000 series:** remove the rear weights from the rear weight brackets.

## Moving Loose or Soft Materials

If the power unit is equipped with 2-speed transaxles, shift the power unit into low range.

Lower the front hitch and rotate the bucket to position the cutting edge at the desired level (usually near the ground). If scooping material directly off the ground, you may want to start with the primary SDLA lever in the float position to allow the bucket to follow the surface contour. NOTE: in order for the bucket to float properly, weight transfer must be disengaged.

Tilt the front of the bucket downward very slightly to keep the heel of the bucket from dragging the ground.

Drive forward slowly into the material. Do not use high speed to ram a pile of material.

### **⚠ WARNING**

Sudden deceleration caused by large amounts of material or hidden objects may cause injury to the operator and/or damage to the machine.

Do not use high speed to ram the material.

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

## GENERAL OPERATION

For scraping a hard surface, use a bit of down pressure on the cutting edge by taking the primary SDLA lever out of the float position and slightly lowering the bucket. NOTE: this will take some weight off the power unit's front axle, reducing the power unit's steering ability.

### **WARNING**

Lifting the front tires off the ground will cause the steering ability to be lost or greatly reduced. Do not lift the front tires off the ground when applying down pressure.

Continue to fill the bucket by driving forward slowly while beginning to raise the bucket. To complete the fill, roll the bucket back and lift the bucket.

If your forward motion stalls while attempting to take a large scoop of material, stop or slightly reverse the power unit to reduce penetration force on the bucket, then take a smaller scoop of material.

The power unit's weight transfer system (if equipped) can be engaged to increase the lifting and digging capacity when required. NOTE: the float capability of the front hitch will not work in this mode.

While hauling the loaded material to another location, use speeds that are safe for the terrain and surface conditions.

Optional teeth can be installed on the cutting edge. The teeth can help penetrate and break up hard or compacted material.

### **Smoothing and Leveling Loose Materials**

For smoothing or leveling while moving forward, tilt the front of the bucket down 0-15 degrees.

For smoothing or leveling while moving in reverse, tilt the bucket down 30-45 degrees. The best smoothing results are usually obtained when pulling a relatively small amount of material in reverse.

### **Brush and Log Removal with the Optional Grapple**

#### **WARNING**

Overloading the bucket and grapple can compromise the machine stability or operator safety. If the load affects the machine stability, reduce the size of the load before continuing operation.

Open the grapple jaws, lower and/or tilt the bucket until the cutting edge is below the log or brush, and drive forward slowly. When the log or brush is positioned in the bucket, close the grapple jaws, pull the secondary SDLA lever to the left while cycling the button to alternately roll the bucket back and apply additional clamping force on the load, and lift the bucket. The grapple jaws will hold the log or brush in place while transporting to another location.

While hauling the loaded material to another location, use speeds that are safe for the terrain and surface conditions. Be aware of the width of the log or brush you are transporting and make sure your travel path is wide enough to accommodate your load.

When you reach the desired location, tip the bucket forward and open the grapple jaws to release the log or brush.



# 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 power bucket, clean or wash the power bucket after each use to remove dirt, mud, stones, mulch, or other debris.

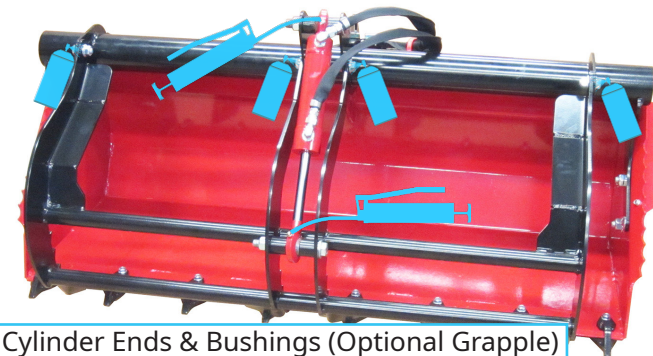
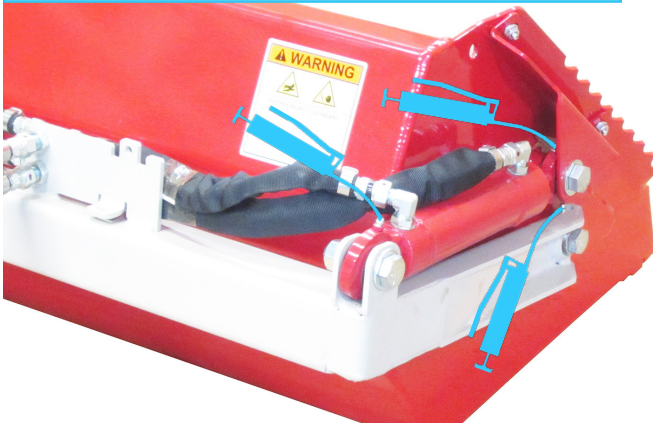
### Lubrication Locations

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

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

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

#### Cylinder Ends & Bucket Pivot (Right & Left Sides)



#### Cylinder Ends & Bushings (Optional Grapple)

### Storage

#### Preparing the Attachment for Storage

1. Clean the attachment to remove accumulated dirt, mud, stones, mulch, or other debris.
2. Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
3. Inspect the hydraulic hoses and fittings to ensure tight, leak free connections.
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. Inspect the painted components for chips, scratches, or rust. Clean and touch up the surfaces as needed.

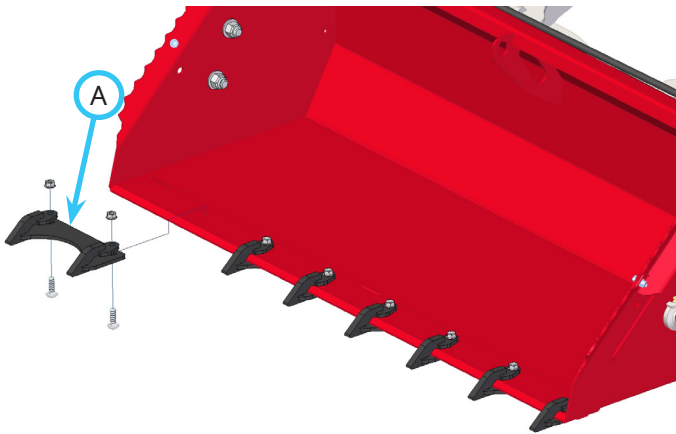
#### Removing the Attachment from Storage

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

## Optional Power Bucket Teeth Installation

1. Park the power unit and power bucket on a level surface and raise the power bucket high enough to place blocks underneath.
2. Place 10 cm (4 inch) blocks or other supports under the power bucket and lower the bucket until it is resting on the blocks.
3. Engage the parking brake, shut off the engine, and remove the ignition key.
4. Starting at one side of the power bucket, install the sets of teeth (A) onto the front cutting edge of the power bucket.



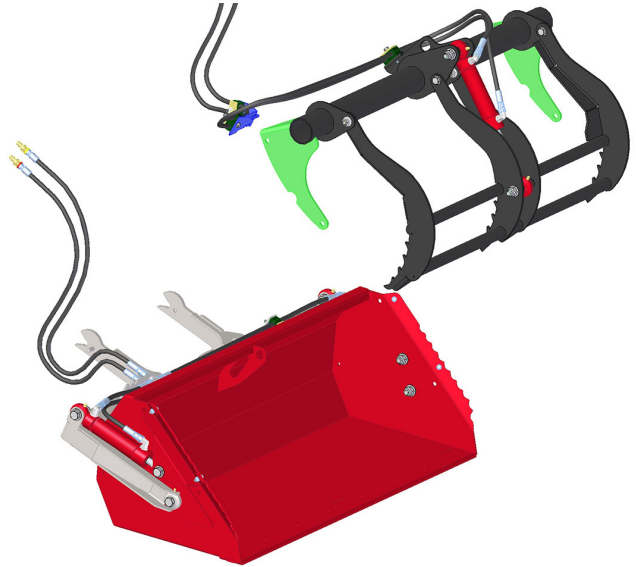
5. Secure each set of teeth to the power bucket using two 3/8 x 1-1/4 inch carriage bolts inserted up through the tooth and bucket. Secure with two flange nuts and torque to 42 Nm (31 ft-lbs).

## Removing the Power Bucket Teeth

1. Park the power unit and power bucket on a level surface and raise the power bucket high enough to place blocks underneath.
2. Place 10 cm (4 inch) blocks or other supports under the power bucket and lower the bucket until it is resting on the blocks.
3. Engage the parking brake, shut off the engine, and remove the ignition key.
4. Remove the carriage bolts and flange nuts and remove the teeth from the front edge of the power bucket.

## Optional Grapple Installation

1. Place the power bucket on a level surface.
2. With the help of an assistant, lift the grapple assembly into place with the grapple frame brackets (highlighted green) inside the right and left sides of the bucket.



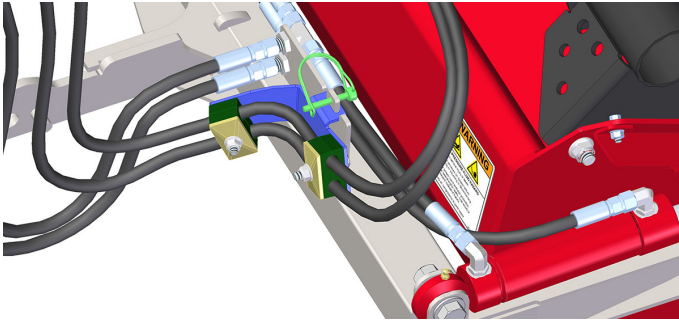
3. Install two 1/2 x 1-1/2 inch carriage bolts through both the right and left grapple frame brackets and the bucket sides and fasten with 1/2 inch nylon locking flange nuts. Torque to 102 Nm (75 ft-lbs).



## SERVICE

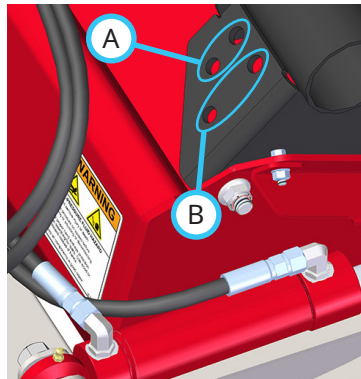
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4. Install the hose/clamp mount bracket (highlighted blue) onto the right hose clamp plate on the power bucket frame. Match up the tabs and slots on the brackets and lower into place. Install the 1/4 inch safety snap pin (highlighted green) through the hole in the tab to secure the hose/clamp mount bracket.



### Removal and Storage of the Grapple

1. Clean the attachment to remove accumulated dirt, mud, stones, mulch, or other debris.
2. Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
3. Inspect the hydraulic hoses and fittings to ensure tight, leak free connections.
4. Apply grease to all grease points and wipe off any excess grease.
5. Remove the 1/4 inch safety snap pin from the hose/clamp mount bracket and remove the hose/clamp mount bracket from the power bucket frame.
6. Place the hydraulic hose ends in the storage holes (A) in the right grapple mounting bracket.
7. Remove the four 1/2 inch carriage bolts and lock nuts that fasten the grapple to the bucket ends.
8. Place the bolts in the storage holes (B) in the right and left mounting brackets and secure with the nuts.
9. Remove the grapple from the bucket and store in a clean, dry location.



# SERVICE

## Maintenance Schedule

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	At 250 hours	At 300 hours	At 350 hours	At 400 hours	At 450 hours	At 500 hours	At 550 hours	At 600 hours	At 650 hours	At 700 hours	At 750 hours	At 800 hours	At 850 hours	At 900 hours	At 950 hours	At 1,000 hours	Yearly
Grease and Lubrication: See Lubrication Section																									
Cylinder End	4	^	**		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bucket Pivot	2	^	**		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cylinder End (Optional Grapple)	2	^	**		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Grapple Bushings (Spray Lube)	4		**		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspection																									
Inspect for Loose, Missing, or Worn Components				✓																					
Inspect the Hydraulic Hoses and Fittings				✓																					
Inspect the Safety Decals				✓																					
^Grease until fresh grease is visible.																									
**Operation in severe conditions may require more frequent service intervals.																									

## Maintenance Checklist

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	At 250 hours	At 300 hours	At 350 hours	At 400 hours	At 450 hours	At 500 hours	At 550 hours	At 600 hours	At 650 hours	At 700 hours	At 750 hours	At 800 hours	At 850 hours	At 900 hours	At 950 hours	At 1,000 hours	Yearly
Grease and Lubrication: See Lubrication Section																									
Cylinder End	4	^	**																						
Bucket Pivot	2	^	**																						
Cylinder End (Optional Grapple)	2	^	**																						
Grapple Bushings (Spray Lube)	4		**																						
Inspection																									
Inspect for Loose, Missing, or Worn Components																									
Inspect the Hydraulic Hoses and Fittings																									
Inspect the Safety Decals																									
^Grease until fresh grease is visible.																									
**Operation in severe conditions may require more frequent service intervals.																									

# SPECIFICATIONS

## HE302 Dimensions

Overall Height . . . . .	40.6 cm (16 inches)
Overall Length . . . . .	85 cm (33-1/2 inches)
Overall Length w/Teeth . . . . .	89.5 cm (35-1/4 inch)
Overall Width . . . . .	87.6 cm (34-1/2 inches)
Working Width . . . . .	76.2 cm (30 inches)
Weight^ . . . . .	65.8 kg (145 pounds)
Capacity . . . . .	.10 m <sup>3</sup> (3.6 ft <sup>3</sup> )

^ Optional cutting teeth add an additional 3.4 kg (7-1/2 pounds).

## HE482 Dimensions

Overall Height . . . . .	40.6 cm (16 inches)
Overall Height w/Grapple . . . . .	58.4 cm (23 inches)
Overall Length . . . . .	85 cm (33-1/2 inches)
Overall Length w/Teeth . . . . .	89.5 cm (35-1/4 inch)
Overall Length w/Grapple . . . . .	99.7 cm (39-1/4)
Overall Width . . . . .	134.6 cm (53 inches)
Working Width . . . . .	122 cm (48 inches)
Weight^ . . . . .	86.2 kg (190 pounds)
Weight w/Grapple^ . . . . .	120.2 kg (265 pounds)
Capacity . . . . .	.17 m <sup>3</sup> (6 ft <sup>3</sup> )
Capacity w/Bucket Extension . . . . .	.28 m <sup>3</sup> (10 ft <sup>3</sup> )
Grapple Opening . . . . .	66 cm (26 inches)

^ Optional cutting teeth add an additional 4.5 kg (10 pounds).

## Power Bucket Angle and Ground Clearance

Dump Angle at Full Height . . . . .	51 degrees*
Ground Clearance in Raised Position (3000 series). . . . .	21.6 cm (8-1/2 inches)*
Ground Clearance in Raised Position (4000 series). . . . .	23.5 cm (9-1/4 inches)*
Ground Clearance in Dump Position (3000 series) . . . . .	16.8 cm (6-5/8 inches)*
Ground Clearance in Raised Position (4000 series). . . . .	18.7 cm (7-3/8 inches)*

\*Dimensions from tractor equipped with standard tires. Measurements may vary depending on optional equipment and tire inflation pressure.

# SPECIFICATIONS

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## Features

- Hardened cutting edge
- Serrated side edge
- Hydraulic cylinder guards
- Hydraulic control of all functions (including optional grapple)
- Optional cutting teeth
- Optional grapple
- Optional bucket extension

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

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# 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.