



Operator's Manual  
& Parts Drawings

# ET200

Turbine Blower  
Europe C€





500 Venture Drive  
Orrville Oh 44667  
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A downloadable parts manual is also available.

### To the Owner Contact Information and Product Identification

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

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

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

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

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

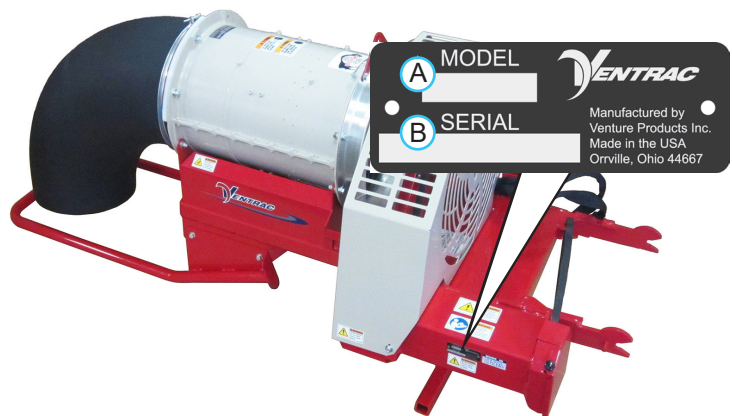
Dealer Phone Number: \_\_\_\_\_

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

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

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

Affix Part/Serial Number label here.



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

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# INTRODUCTION

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Venture Products Inc. is pleased to provide you with your new Ventrac ET200 turbine blower! We hope that Ventrac equipment will provide you with a ONE Tractor Solution.

## Product Description

The Ventrac ET200 turbine blower is designed to blow large volumes of air and is much quieter than a conventional blower. The turbine blower can be used to blow leaves, light snow, and remove debris from sidewalks, parking lots, and other areas.

The turbine blower's front discharge nozzle can be hydraulically rotated 360 degrees. When the nozzle is pointed downward, the blower can be used to clear paths. The discharge nozzle can be pointed out either side to move debris in the desired direction. The nozzle can also be pointed upward to remove loose leaves from trees.

## 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.

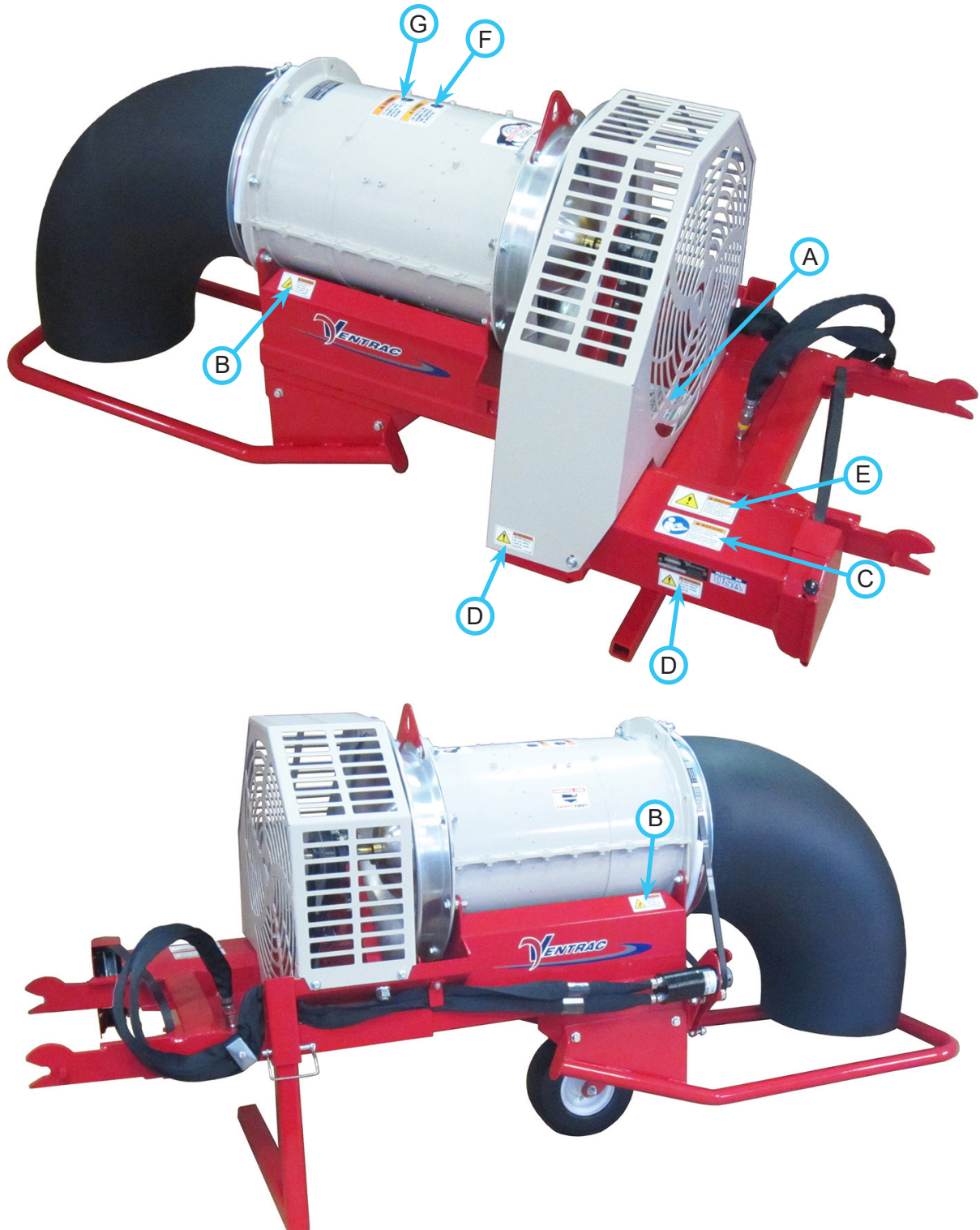
# SAFETY

## Safety Decals

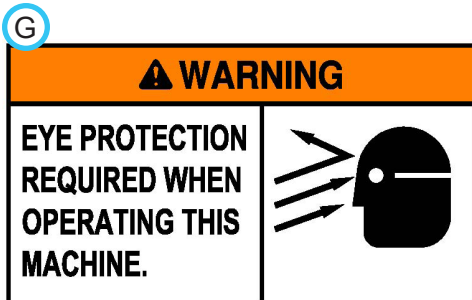
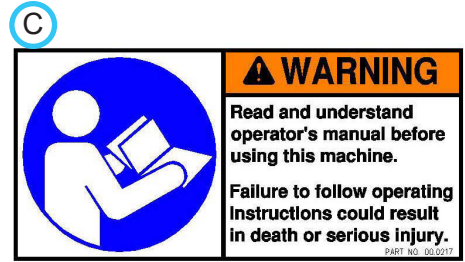
The following safety decals must be maintained on your ET200 turbine blower.

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	Warning, Moving Parts	00.0216	2
C	Warning, Read Owner's Manual	00.0217	1
D	Warning, Do Not Reach	00.0219	2
E	Warning, General Safety	00.0220	1
F	Warning, Ear Protection	07.22106	1
G	Warning, Eye Protection	07.22107	1



# 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.
- 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.

# SAFETY

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



- 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.
- 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.

# SAFETY

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



- 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.

### 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.

# SAFETY

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



- Never perform maintenance on the power unit and/or attachment if someone is in the operator's station.
- Always use protective glasses when handling the battery.
- Check the fuel lines for tightness and wear on a regular basis. Tighten or repair them as needed.
- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, and excess grease.
- Do not touch the engine, the muffler, or other exhaust components while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause a burn.
- Allow the engine to cool before storing and do not store near an open flame.
- Do not change the engine governor settings or over-speed the engine. Operating engine at excessive speeds may increase the hazard of personal injury.
- Springs may contain stored energy. Use caution when disengaging or removing springs and/or spring loaded components.
- An obstruction or blockage in a drive system or moving/rotating parts may cause a buildup of stored energy. When the obstruction or blockage is removed, the drive system or moving/rotating parts may move suddenly. Do not attempt to remove an obstruction or blockage with your hands. Keep your hands, feet, and clothing away from all power-driven parts.

### Fuel Safety

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

### Hydraulic Safety

- Make sure the hydraulic connections are tight and all hydraulic hoses and tubes are in good condition. Repair any leaks and replace any damaged or deteriorated hoses or tubes before starting the machine.
- Hydraulic leaks can occur under high pressure. Hydraulic leaks require special care and attention.
- Use a piece of cardboard and a magnifying glass to locate suspected hydraulic leaks.

# SAFETY

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



- 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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## ET200 Safety Procedures



- Remove any loose objects from the work area. The turbine blower produces strong wind speeds and could blow loose objects at high velocity, causing damage or injury to other objects, buildings, vehicles, people, or animals.
- Never direct the blower discharge in the direction of people, buildings, animals, vehicles, or other objects of value.
- Do not attempt to clear leaves or other debris from the intake shield or the blower discharge while the machine is running. 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 attempting to clear a blockage.
- Attachment hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, the attachment's auxiliary hydraulic hoses must be disconnected from the power unit. Lower the attachment to the ground, shut off power unit engine, move the secondary S.D.L.A. lever left and right to relieve auxiliary hydraulic pressure, and disconnect the auxiliary hydraulic quick couplers.
- Store the turbine blower with the nozzle turned down to prevent debris or foreign objects from entering the blower.

# 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 turbine blower. Look for loose or missing hardware, damaged components, or signs of wear.
3. Check inlet, blower housing, and discharge areas for foreign objects or material. Clean as needed.
4. Inspect hydraulic hoses, hydraulic fittings, and fuel lines to ensure tight, leak free connections.
5. Inspect the drive belts. Belts should be in good condition. Service as required.
6. Refer to the power unit operator's manual. Check the power unit's engine oil, hydraulic oil, cooling system, tire pressure, and fuel level. Add fluid or service as required.
7. Test the power unit's operator safety interlock system\*.

## Attaching

1. Drive the power unit slowly forward into the hitch arms of the turbine blower. Align the lift arms of the power unit with the turbine blower hitch arms by raising or lowering the front hitch and complete the engagement.
2. Once completely engaged, close the front hitch locking lever.\*
3. Engage the parking brake\* and shut off the engine.
4. Place the attachment belt onto the PTO drive pulley on the power unit. Ensure the belt is properly seated in each pulley.
5. Engage the PTO tension spring.
6. Wipe hose ends clean, and connect to the power unit's hydraulic quick couplers. If equipped, connect the hoses and quick couplers so the red indicators are paired together and the yellow indicators are paired together.
7. Raise the jack stand to the highest position and install the latch pin.

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

## Detaching

1. Park the power unit on a level surface and set the parking brake.\*
2. Lower the turbine blower to the ground.
3. Rotate the blower nozzle until it is pointing down.
4. Shut off power unit engine.
5. Disengage the PTO tension spring.
6. Remove the attachment belt from the PTO drive pulley of the power unit.
7. Disconnect the hydraulic quick couplers from the power unit and store the hose ends in the frame holes in front of the intake screen.
8. Lower the jack stand to the lowest position possible and install the latch pin.
9. Disengage the front hitch locking lever.\*
10. Restart power unit and slowly back away from the turbine blower. A side to side movement of the steering wheel may aid in disengagement.

## Hydraulic Blower Rotation

Move the power unit's secondary SDLA lever\* to the left or right to rotate the blower discharge nozzle. Release the lever when the nozzle is pointing in the desired direction.

## Blower Operation

Engage the power unit's weight transfer system (if equipped) to decrease the weight on the blower's front caster wheel, especially if operating on soft ground.

Lower the turbine blower to the ground and place the power unit's primary SDLA lever\* in the float position. Set the discharge nozzle to the desired direction.

With the power unit engine running between 2,000 and 2,500 RPM, engage the PTO switch. Increase the engine speed until there is sufficient force to accomplish the blowing task.

### **WARNING**

The turbine blower produces strong wind speeds that can cause damage and/or unintentionally displace things. Never direct the blower discharge in the direction of people, buildings, animals, vehicles, or other objects of value.

When blowing leaves or debris, observe the wind direction and work with the wind whenever possible. When clearing a large area, make a pass while blowing material in the desired direction. Move over close to the edge of the material and make another pass. Continue until entire area is clear.

# 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 turbine blower, clean or wash the turbine blower after each use to remove leaves, dirt, and other debris.

If buildup of dirt or debris occurs on the turbine fins or in the blower housing, blower efficiency can be affected and a loss of air volume and velocity may be noticed. If this occurs, clean the fins and housing using an air nozzle with an extension or low pressure water.



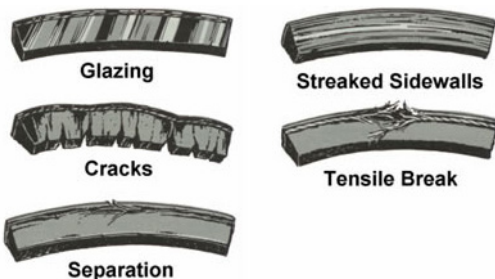
## **Attention**

Do not spray water into the blower while the machine is running.

## **Belt Inspection**

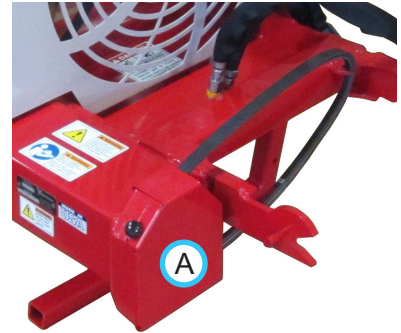
Inspecting the drive belts of the turbine blower can prevent sudden belt failure by finding problems before they cause a belt to break.

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



## **Turbine Fan Belt Replacement**

1. Remove the turbine blower from the power unit.
2. Remove the inlet screen (A) from the turbine blower.



## **⚠ CAUTION**

Spring may be under high tension. Use caution when releasing spring, as pinching may occur.

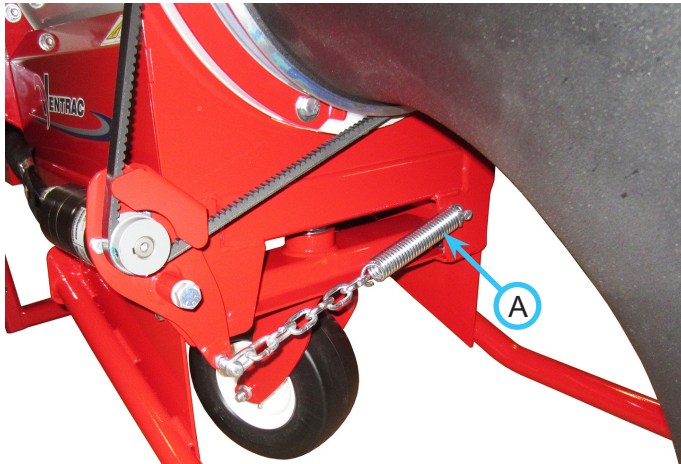
3. Release the turbine fan belt tensioning spring.
4. Remove the old belt and place a new belt onto the pulleys.
5. Engage the turbine fan belt tensioning spring.
6. Reinstall the inlet screen.



# SERVICE

## Nozzle Rotation Belt Replacement

1. Release belt tension by removing the extension spring (A) from the frame bolt.



2. Remove the old belt and place a new belt onto the turbine nozzle and the motor pulley.
3. Reinstall the extension spring onto the frame bolt to apply belt tension.

## Turbine Fan Belt Adjustment

1. Remove the turbine blower from the power unit.
2. Remove the inlet screen from the turbine blower.
3. Move the belt tensioning spring down to the next frame notch to increase belt tension.
4. Reinstall the inlet screen.

## Nozzle Rotation Belt Adjustment.

1. Remove the extension spring from the frame bolt.
2. Move the extension spring hook into the next chain link closer to the motor mount.
3. Reinstall the extension spring onto the frame bolt.

NOTE: due to differences in air pressure, the nozzle may rotate freely at lower engine RPM with the blower engaged but become erratic or not rotate at all at high engine RPM. If this occurs, lubricate the nozzle base retainers as specified in the lubrication section and/or increase nozzle drive belt tension.

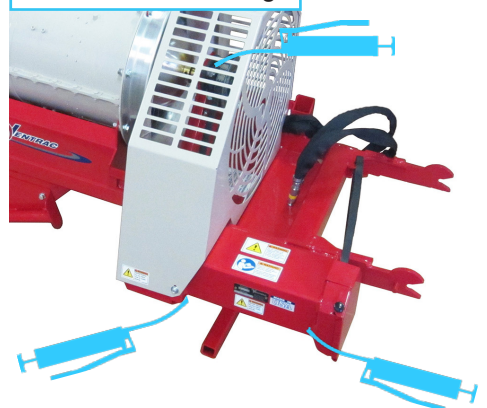
## Lubrication Locations

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.

The drive shaft bearings can be reached from underneath the frame.

It may be necessary to remove the inlet screen in order to grease the turbine shaft bearing.

Drive Shaft Bearings & Turbine Shaft Bearing

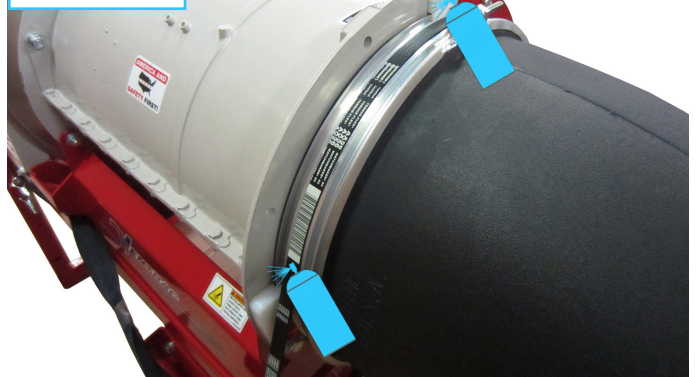


Wheel Pivot & Wheel Axle Bearing



Lubricate the nozzle slides with a Teflon type dry lubricant. This will clean as well as lubricate, helping to ensure smooth operation of the nozzle. Do NOT use silicone lubricant, which will attract dust and dirt.

Nozzle Slides



# SERVICE

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## Storage

### Preparing the Turbine Blower for Storage

1. Clean the turbine blower. Check for buildup of material in the inlet or discharge areas. Inspect the fins of the turbine fan and the inside of the blower housing for buildup of dirt or debris.
2. Inspect for loose or missing hardware, damaged components, or signs of wear.
3. Inspect safety decals. Replace any decals that are faded, illegible, or missing.
4. Inspect hydraulic hoses and fittings to ensure tight, leak free connections. Repair or replace any damaged or worn components.
5. Inspect belts for signs of damage or wear and replace as required.
6. Apply grease to all grease points and lubricate the nozzle slides.
7. Wipe off all excess grease.

### Removing the Turbine Blower from Storage

1. Clean the turbine blower to remove any accumulated dust or dirt.
2. Inspect the turbine blower as instructed in the daily inspection section.
3. Test the turbine blower to ensure all components are working properly.

# SERVICE

## Maintenance Schedule

Maintenance Schedule			# of Locations	# of Pumps	Daily	At 25 Hours	At 50 Hours	At 75 Hours	At 100 Hours	At 125 Hours	At 150 Hours	At 175 Hours	At 200 Hours	At 225 Hours	At 250 Hours	At 275 Hours	At 300 Hours	At 325 Hours	At 350 Hours	At 375 Hours	At 400 Hours	At 425 Hours	At 450 Hours	At 475 Hours	At 500 Hours	Yearly	
	Grease & Lubrication: See Lubrication Section																										
Drive Shaft Bearing	2	1						✓					✓								✓						✓
Turbine Shaft Bearing	1	1						✓					✓								✓						✓
Caster Wheel Pivot	1	1			✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
Wheel Axle Bearing	1	^		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nozzle Slide (Teflon dry lubricant)				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspection																											
Inspect & Clean - Inlet & Discharge Areas, Turbine Fins, & Blower Housing.		✓																									
Inspect for Loose, Missing, or Worn Components.		✓																									
Inspect Drive Belts		✓																									
Inspect Hydraulic Hoses & Fittings		✓																									
Inspect Safety Decals		✓																									

^Grease until fresh grease is visible.

## Maintenance Checklist

Maintenance Checklist			# of Locations	# of Pumps	At 25 Hours	At 50 Hours	At 75 Hours	At 100 Hours	At 125 Hours	At 150 Hours	At 175 Hours	At 200 Hours	At 225 Hours	At 250 Hours	At 275 Hours	At 300 Hours	At 325 Hours	At 350 Hours	At 375 Hours	At 400 Hours	At 425 Hours	At 450 Hours	At 475 Hours	At 500 Hours	Yearly		
	Grease & Lubrication: See Lubrication Section																										
Drive Shaft Bearing	2	1																									
Turbine Shaft Bearing	1	1																									
Caster Wheel Pivot	1	1																									
Wheel Axle Bearing	1	^																									
Nozzle Slide (Teflon dry lubricant)																											
Inspection																											
Inspect & Clean - Inlet & Discharge Areas, Turbine Fins, & Blower Housing.																											
Inspect for Loose, Missing, or Worn Components.																											
Inspect Drive Belts																											
Inspect Hydraulic Hoses & Fittings																											
Inspect Safety Decals																											

^Grease until fresh grease is visible.

# SPECIFICATIONS

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## Dimensions

Overall Height (Nozzle Pointed Down) . . . . .	34 inches (86 cm)
Overall Height (Nozzle Pointed Up) . . . . .	47 inches (119 cm)
Overall Length . . . . .	76 inches (193 cm)
Overall Width . . . . .	27 inches (69 cm)
Weight . . . . .	256 pounds (116 kg)
Nozzle Size . . . . .	12 inches (31 cm)
Wind Speed at Nozzle* . . . . .	175 MPH (282 km/h)

\*based on 3,650 engine RPM

## Features

- One piece aerospace polymer discharge nozzle
- Flat free tire
- High volume air flow
- Reduced noise level
- Nozzle rotation controlled hydraulically from the power unit's seat.
- 360 degree nozzle rotation
- Front bumper to help protect nozzle

# SPECIFICATIONS


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

Measured Sound Power Level, dB(A)	114.9
Sound Power Uncertainty, dB(A)	2.0
Sound Pressure Level at Operator's Ear, dB(A)	95.3
Sound Pressure Uncertainty, dB(A)	2.0

Note 1: Specifications subject to change without notice.

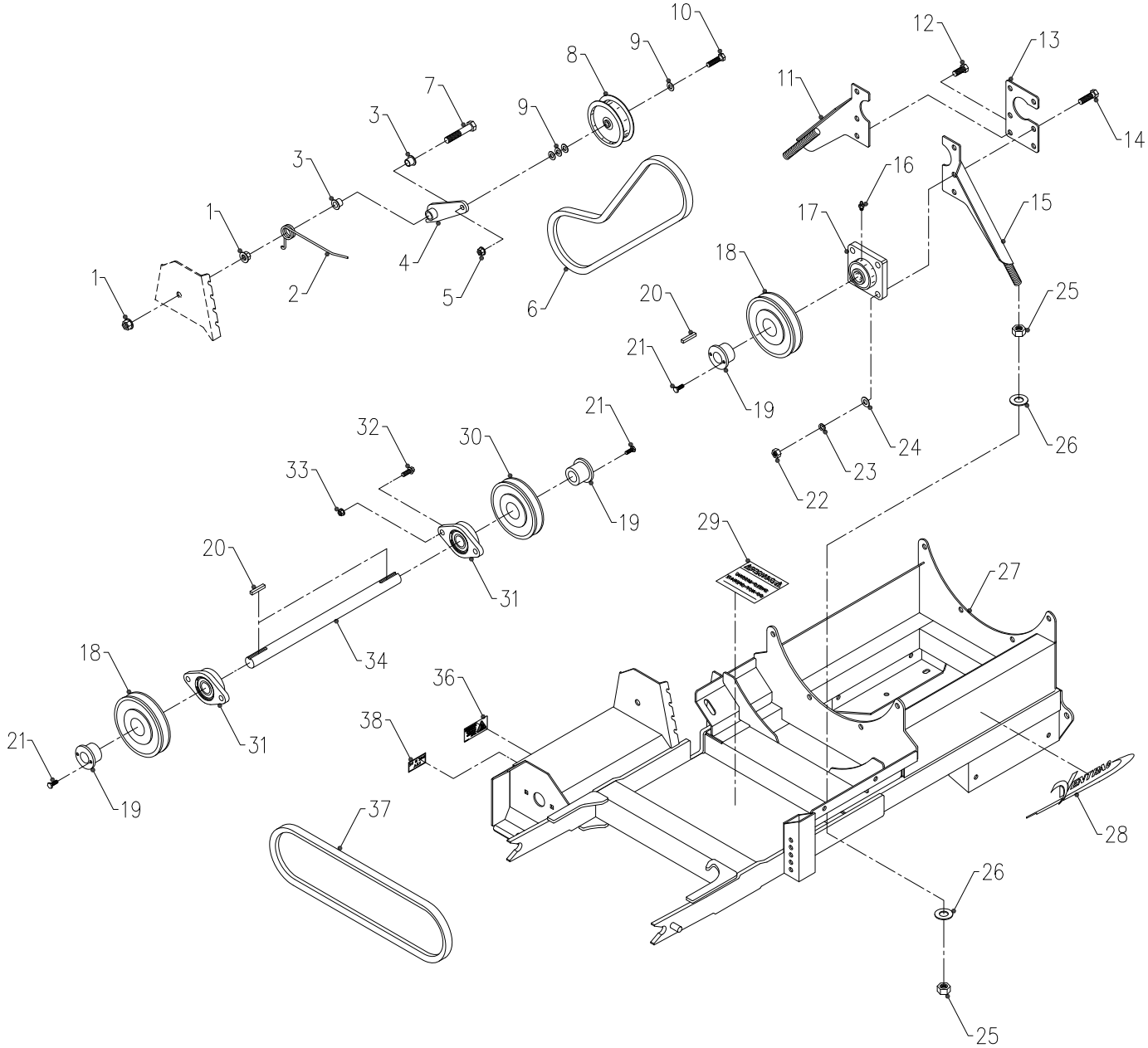
## EC Declaration of Conformity

### Ventrac ET200

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	Turbine air blower
Model Name	Ventrac ET200 turbine blower
Model Number	39.55340
Serial Number	ET200-Axxxxx
This Product Conforms to Directives	2006/42/EC
Ryan Steiner Director of Engineering 	23-July-2015 Orrville, Ohio USA

# PARTS

## ILLUSTRATED DRAWING Main Frame & Blower Drive



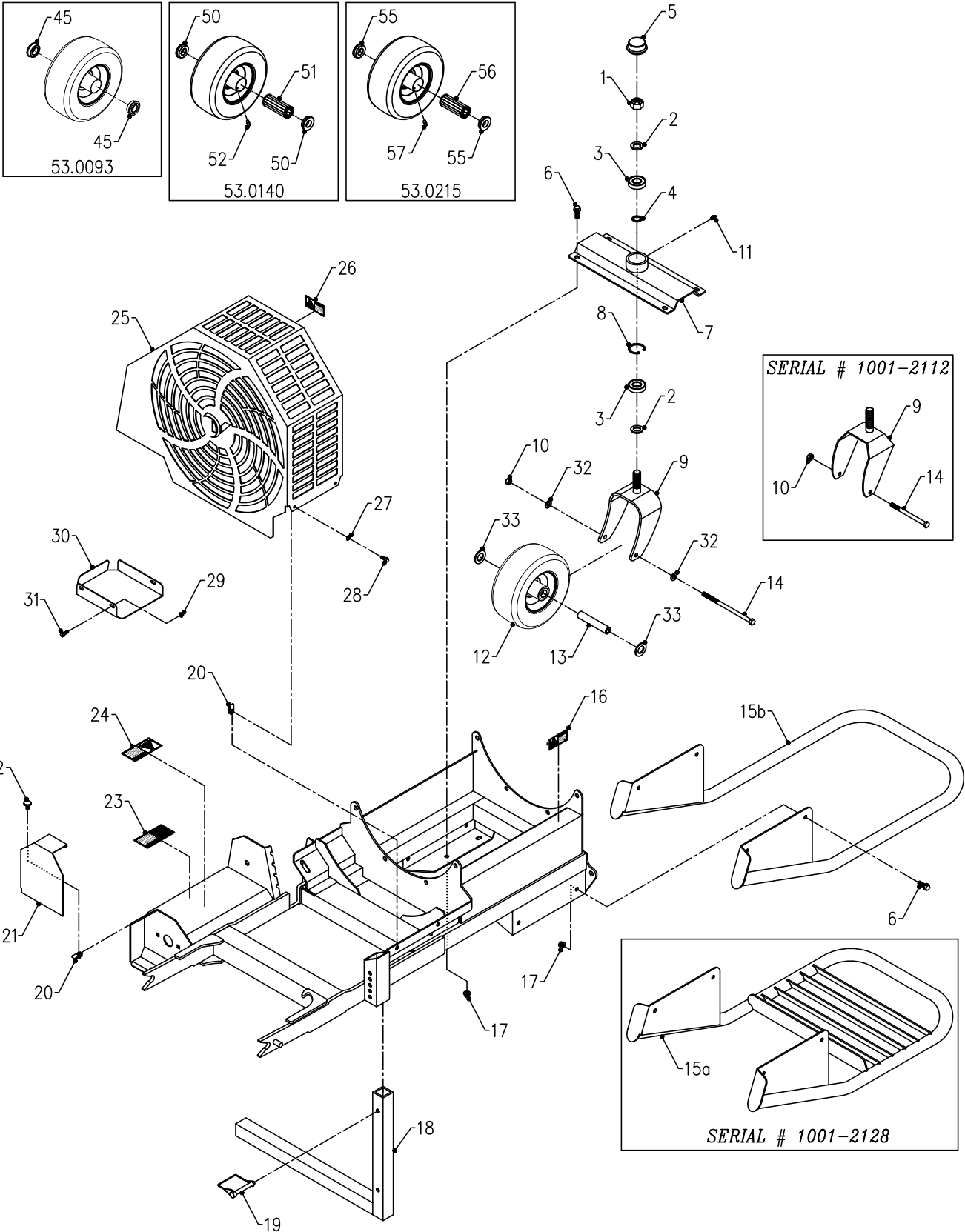
# PARTS

## Main Frame & Blower Drive

REF.	PART NO.	DESCRIPTION	QTY.
1	99.SF08	.NUT, SRF 1/2-13 USS.	2
2	41.0066	.SPRING, SINGLE TORSION LH.	1
3	85.B0027	.BUSHING, 1/2 ID X 5/8 OD X 5/8.	2
4	64.1121	.TIGHTNER, MAIN DRIVE BELT	1
5	99.SF06	.NUT, SRF 3/8-16 USS.	1
6	81.B047	.BELT, B47	1
7	90.0822	.BOLT, 1/2-13 USS X 2 3/4.	1
8	83.0037	.PULLEY, IDLER FLAT 4" X 3/8.	1
9	95.06	.WASHER, FLAT 3/8 SAE	4 (A/R)
10	90.0614	.BOLT, 3/8-16 USS X 1 3/4.	1
11	64.1140	.BRACKET, MAIN BEARING MT LEFT	1
12	90.0708	.BOLT, 7/16-14 USS X 1.	2
13	64.1141	.PLATE, MAIN BEARING BACKING	1
14	90.0714	.BOLT, 7/16-14 USS X 1 3/4.	4
15	64.1119	.BRACKET, MAIN BEARING MT RIGHT	1
16	29.GF0001	.GREASE FTG, 1/4 SAE ST	3
17	55.FB22016-2	.BEARING, FLANGE, 1"	1
18	83.BK55H	.PULLEY, 5.5" H-BUSHING	2
19	83.H16S	.BUSHING, 1" SPLIT 1/4" KEY	3
20	85.K0412	.KEY, 1/4 X 1-1/2.	3
21	90.0406	.BOLT, 1/4-20 USS X 3/4	6
22	92.07	.NUT, 7/16-14 USS	6
23	96.07	.WASHER, LOCK 7/16.	6
24	95.07	.WASHER, FLAT 7/16 SAE	6
25	93.10	.NUT, 5/8-18 SAE	4
26	95.10	.WASHER, FLAT 5/8 SAE	4
27	62.1016	.FRAME, MAIN ET200	1
28	00.0189	.DECAL, VENTRAC ORBITAL	2
29	00.0062	.DECAL, DANGER SHIELD MISSING	1
30	83.BK52H	.PULLEY, 5.2" H-BUSH	1
31	55.FB16016-1	.BEARING, FLANGE BLOCK 1"	2
32	99.SF0508	.BOLT, SRF 5/16-18 USS X 1	4
33	99.SF05	.NUT, SRF 5/16-18 USS	4
34	80.0349	.SHAFT, 1 X 17-1/4L KEYED EN.	1
36	00.0219	.DECAL, WARNING DO NOT REACH	1
37	81.B046	.BELT, B46	1
38	00.0100	.DECAL, MADE IN USA.	1

# PARTS

## ILLUSTRATED DRAWING Shields, Jack Stand, & Caster Wheel





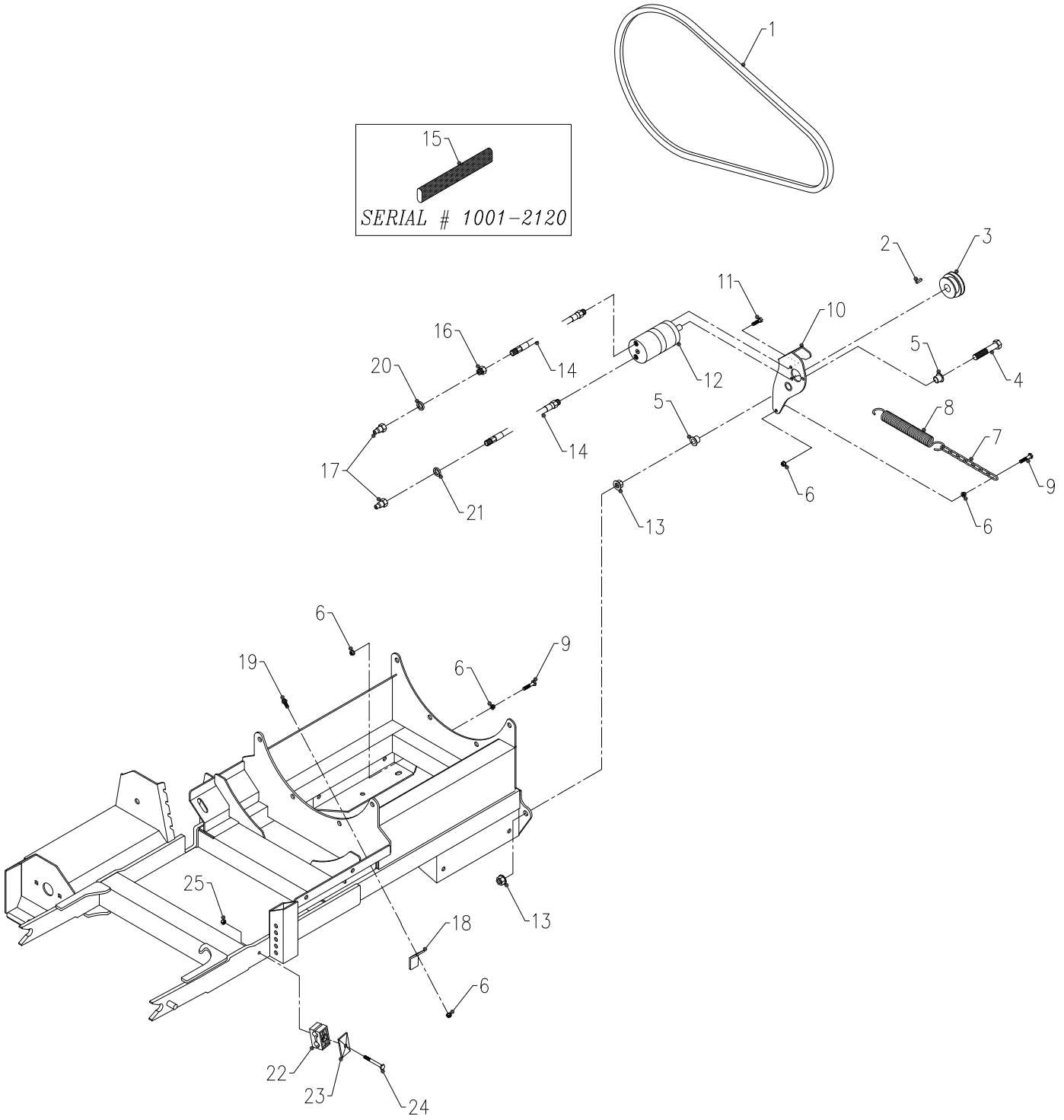
# PARTS

## Shields, Jack Stand, & Caster Wheel

REF.	PART NO.	DESCRIPTION	QTY.
1	99.A12NF	LOCKNUT, STOVER 3/4-16 SAE	1
2	99.B0057-2	WASHER, MACH3/4 X1-1/4 10GA ZP	2
3	55.0023	BEARING, BALL .75 ID X 1.78 OD	2
4	99.B0052	SHIM, STEEL 3/4 X 1 X .062	1
5	53.0080	DUST CAP, BEARING MOWER CASTER	1
6	99.SF0606	BOLT, SRF 3/8-16 USS X 3/4	8
7	64.1120	FRAME, CASTER WHEEL MOUNT	1
8	04.0013	SNAP RING, INT .062 X 1.75	1
9	50.0054	YOKE, CASTER FRAME 8" TIRE (Serial # 1001-2112)	1
9	50.0185	SPINDLE, TIRE SWIVEL 9" (Serial # 2113-)	1
10	99.A06N	LOCKNUT, NYLON 3/8-16	1
11	29.GF0001	GREASE FTG, 1/4 SAE ST	1
12	53.0093	WHEEL, ASM 9 X 3.50 X4 SMOOTH (Serial # 1001-2128)	1
12	53.0140	WHEEL, ASM 9 X 3.5 X4 FLATFREE (Serial # 2129-3595)	1
12	53.0215	WHEEL, ASM 9 X 3.5 X4 FLATFREE (Serial # 3596-)	1
13	50.0055	TUBE, AXLE-WHEEL LM	1
14	90.0640	BOLT, 3/8-16 USS X 5 (Serial # 1001-2112)	1
14	90.0644	BOLT, 3/8-16 USS X 5 1/2 (Serial # 2113-)	1
15A	64.1126	BUMPER, AIR DEFLECTOR (Serial # 1001-2128)	1
15B	60.1069	GUARD, DISCHARGE NOZZLE (Serial # 2129-)	1
16	00.0216	DECAL, WARNING MOVING PARTS	2
17	99.SF06	NUT, SRF 3/8-16 USS	8
18	62.1391	STAND, ET200	1
19	03.0015	PIN, SAFETY SNAP 3/8 X 3"	1
20	99.E0046	NUT, "U" 1/4-20 EXTRUDED	5
21	60.0665	SHIELD, DRIVE PULLEY	1
22	47.0167	KNOB, 1/4-20 X 1-1/4 DIA BLK	1
23	00.0217	DECAL, WARNING READ OWNERS MAN	1
24	00.0220	DECAL, GENERAL SAFETY	1
25	64.1124	SCREEN, INLET	1
26	00.0219	DECAL, WARNING DO NOT REACH	1
27	94.04	WASHER, FLAT 1/4 USS	4
28	99.SF0406	BOLT, SRF 1/4-20 X 3/4	4
29	99.SF04	NUT, SRF 1/4-20 USS	3
30	60.0893	SHIELD, LOWER LEFT AIR INLET	1
31	99.SF0404	BOLT, SRF 1/4-20 X 1/2	3
32	95.06	WASHER, FLAT 3/8 SAE (Serial # 2113-)	2
33	95.12	WASHER, FLAT 3/4 SAE (Serial # 2113-)	2 (A/R)
45	55.0060	BEARING, DOUBLE-SEALED	2
50	55.0072	BEARING, RETAINER 3/4"	2
51	55.0071	BEARING, ROLLER 3.25" LONG	1
52	29.GF0001	GREASE FTG, 1/4 SAE ST	1
55	55.0114	RETAINER, ROLLER BEARING 3/4"	2
56	55.0115	BEARING, ROLLER 2.50" LONG	1
57	29.GF0003	GREASE FTG, 1/4 SAE 45	1

# PARTS

## ILLUSTRATED DRAWING Hydraulic Nozzle Rotation Motor



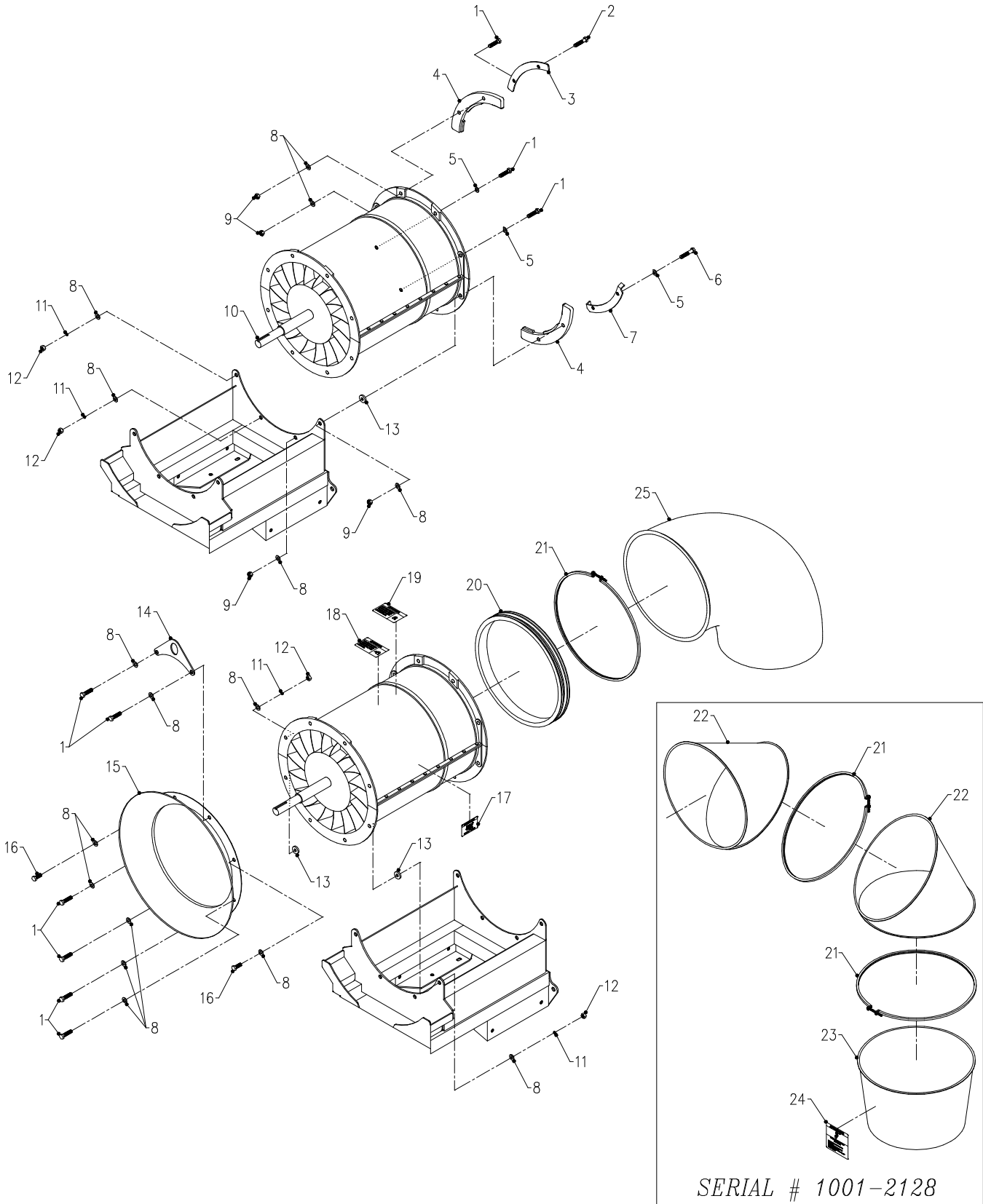
# PARTS

## Hydraulic Nozzle Rotation Motor

REF.	PART NO.	DESCRIPTION	QTY.
1	81.AX56	.BELT, AX56	1
2	85.K0307	.KEY, 3/16 X 5/8	1
3	83.AS1710	.PULLEY, AS 1.7" 5/8" BORE	1
4	90.0822	.BOLT, 1/2-13 USS X 2 3/4	1
5	85.B0027	.BUSHING, 1/2 ID X 5/8 OD X 5/8	2
6	99.SF04	.NUT, SRF 1/4-20 USS	5
7	81.0150	.CHAIN, 3/16 X 7 LINKS 7-1/8"	1
8	41.0048	.SPRING, EXT. 1 OD X 6	1
9	90.0410	.BOLT, 1/4-20 USS X 1 1/4	2
10	64.1122	.MOUNT, ROTATING MOTOR	1
11	91.0404	.BOLT, 1/4-28 SAE X 1/2	3
12	21.0113	.MOTOR, HYD 1.93 CU.IN	1
13	99.SF08	.NUT, SRF 1/2-13 USS	2
14	20.0214	.HOSE, 1/4X63.00 SAE 100R17 AR	2
15	56.0060-60	.SLEEVE, HOSE 1.25 X 60" (Serial # 1001-2120)	1
16	29.0092	.FITTING, .025 ORIFICE 1/4 PIPE	1
17	23.0104	.COUPLER, QUICK MALE 1/4	2
18	64.1125	.CLAMP HOSE	1
19	99.SF0406	.BOLT, SRF 1/4-20 X 3/4	1
20	05.0117	.WASHER, .544ID X .817 X.14 YEL	1
21	05.0116	.WASHER, .544ID X .817 X.14 RED	1
22	44.0256	.CLAMP, HYD. HOSE 12.7MM ID GRN (Serial # 2331-)	1
23	44.0229	.COVER PLATE, 2D GROUP (Serial # 2331-)	1
24	90.0418	.BOLT, 1/4-20 USS X 2 1/4 (Serial # 2331-)	1
25	99.A04	.LOCKNUT, STOVER 1/4-20 USS (Serial # 2331-)	1

# PARTS

## ILLUSTRATED DRAWING Blower Mount & Discharge Nozzle (Serial # 1001-2640)



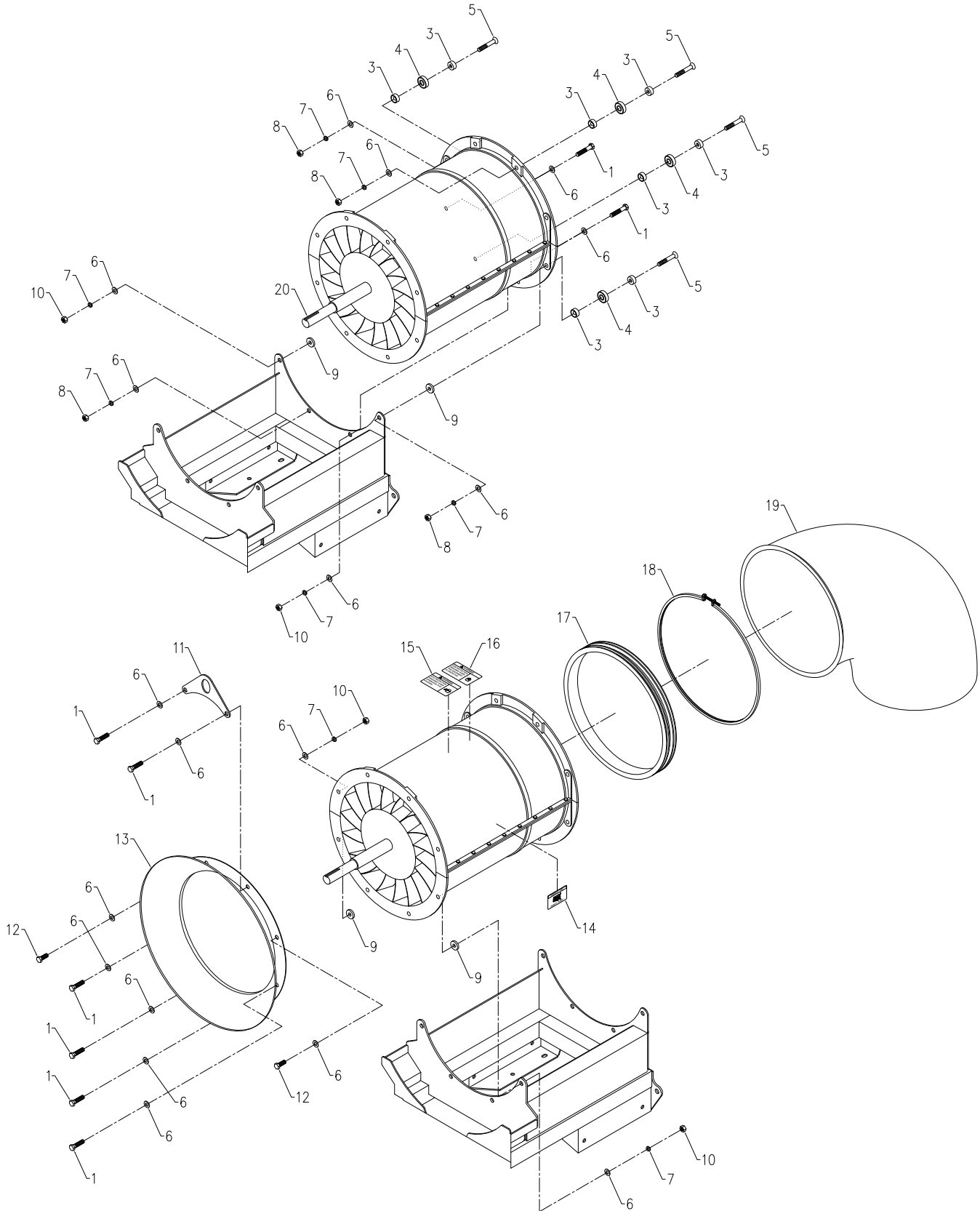
# PARTS

## Blower Mount & Discharge Nozzle (Serial # 1001-2640)

REF.	PART NO.	DESCRIPTION	QTY.
1	90.0612	.BOLT, 3/8-16 USS X 1 1/2	9
2	90.0614	.BOLT, 3/8-16 USS X 1 3/4	1
3	44.0212	.CLAMP, BLOWER DISCHARGE UPPER	1
4	07.22114	.SLIDE	2
5	07.22113	.WASHER, 3/8 NOTCHED	4
6	90.0616	.BOLT, 3/8-16 USS X 2	2
7	44.0213	.CLAMP, BLOWER DISCHARGE LOWER	1
8	95.06	.WASHER, FLAT 3/8 SAE	22
9	99.A06	.LOCKNUT, STOVER 3/8-16 USS	4
10	07.22102	.BLOWER ASSEMBLY (TURBINE)	1
11	96.06	.WASHER, LOCK 3/8	10
12	92.06	.NUT, 3/8-16 USS	10
13	07.22116	.SPACER, 3/8 ID X 1 OD X 3/16	4
14	64.1123	.PLATE, ANCHOR LIFT RING	1
15	07.22115	.BELLMOUTH	1
16	90.0608	.BOLT, 3/8-16 USS X 1	2
17	07.22103	.DECAL, AMERICA & SAFETY FIRST	2
18	07.22107	.DECAL, WARNING-EYE PROTECTION	1
19	07.22106	.DECAL, WARNING-EAR PROTECTION	1
20	07.22112	.ELBOW BASE, V GROOVE	1
21	07.22109	.CLAMP BAND	1
22	07.22111	.ELBOW SEGMENT, 45 DEGREE (Serial # 1001-2128)	2
23	07.22110	.12" ROUND NOZZLE (Serial # 1001-2128)	1
24	07.22104	.DECAL, THROWN OBJECT (Serial # 1001-2128)	3
25	07.22117	.NOZZLE, TURBINE PLASTIC (Serial # 2129-)	1

# PARTS

## ILLUSTRATED DRAWING Blower Mount & Discharge Nozzle (Serial # 2641-)



# PARTS

## Blower Mount & Discharge Nozzle (Serial # 2641-)

REF.	PART NO.	DESCRIPTION	QTY.
1	90.0612	.BOLT, 3/8-16 USS X 1-1/2	8
3	07.22119	.SPACER, BEARING	8
4	55.0097	.BEARING, 20MM X 37MM	4
5	07.22118	.SCREW, FLAT HEAD 3/8-24	4
6	95.06	.WASHER, FLAT 3/8 SAE	24
7	96.06	.WASHER, LOCK 3/8	14
8	93.06	.NUT, 3/8-24 SAE	4
9	07.22116	.SPACER, 3/8 ID X 1 OD X 3/16	4
10	92.06	.NUT, 3/8-16 USS	10
11	64.1123	.PLATE, ANCHOR LIFT RING	1
12	90.0608	.BOLT, 3/8-16 USS X 1	2
13	07.22115	.BELLMOUTH	1
14	07.22103	.DECAL, AMERICA & SAFETY FIRST	2
15	07.22107	.DECAL, WARNING-EYE PROTECTION	1
16	07.22106	.DECAL, WARNING-EAR PROTECTION	1
17	07.22112	.ELBOW BASE, V GROOVE	1
18	07.22109	.CLAMP BAND	1
19	07.22117	.NOZZLE, TURBINE PLASTIC	1
20	07.22102	.BLOWER ASSEMBLY (TURBINE)	1

# 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 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



# WARRANTY

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## LIMITED WARRANTY - VENTRAC COMMERCIAL EQUIPMENT

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.