# Operator's Manual & Parts Drawings

# Ballpark Groomer

## Model DR540




VENTRAC by Venture Products Inc.

VENTRAC® MOUNT SYSTEM

**Original Operator's Manual**

09.10099 Rev. 00

**500 Venture Drive**
**PO Box 148**
**Orrville, OH 44667**
**www.ventrac.com**

## To the Owner
## Contact Information and Product Identification

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

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

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



Venture Products Inc. is pleased to provide you with your new Ventrac DR540 ballpark groomer! We hope that Ventrac equipment will provide you with a ONE Tractor Solution.

Listed below are just some of the items that can provide you *versatility* as you use your DR540 ballpark groomer. Please visit our website, or contact your authorized Ventrac dealer for a complete list of items available for your new ballpark groomer.

| Accessories | Item Description | Part Number |
|---|---|---|
| | Groomer Drag Kit - Steel and Coco Mat | 70.8154 |
| | Groomer Brush Kit | 70.8156 |

## Product Description

The Ventrac DR540 ballpark groomer is designed solely for the purposes of maintaining and grooming ballpark infields. The DR540 includes features for surface fracturing, field leveling, and packing. When used with Ventrac's optional groomer brush or drag kits, the DR540 can be used to prepare, groom, and finish the infield for safe and consistent play.

The DR540 ballpark groomer can be used on any tractor or power unit equipped with a category 1 three point hitch.

For infields requiring extensive renovation prior to grooming, use the Ventrac DG550 ballpark renovator.

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

This manual has been created to help you gain the important knowledge of what is needed to safely operate, maintain, and service your machine. It is divided into sections for convenient reference of the appropriate section.

You must read and understand the operator's manual for each piece of Ventrac equipment you own. Reading the operator's manual will help you become familiar with each specific piece of equipment. Understanding the operator's manual will help you, as well as others, avoid personal injury and/or damage to the equipment. Keep this manual with the machine at all times. The manual should remain with the machine even if it is sold. If this manual becomes damaged or unreadable, it should be replaced immediately. Contact your local Ventrac dealer for a replacement.

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

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

# INTRODUCTION

## Using Your Manual

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

### SYMBOL DEFINITIONS



**ATTENTION**

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

There are three signal words that describe the level of safety concern: Danger, Warning, and Caution. Safety should always be the #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 Decals

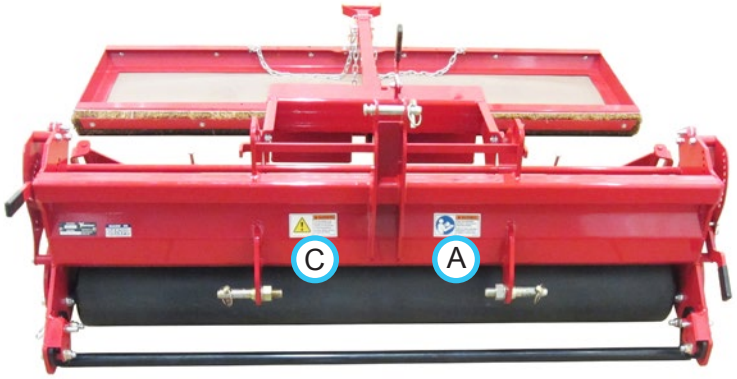
The following safety decals must be maintained on your DR540 ballpark groomer.

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.

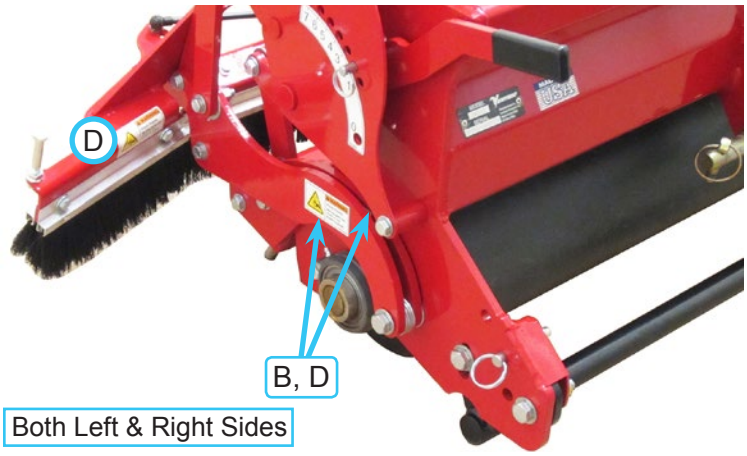
A




B



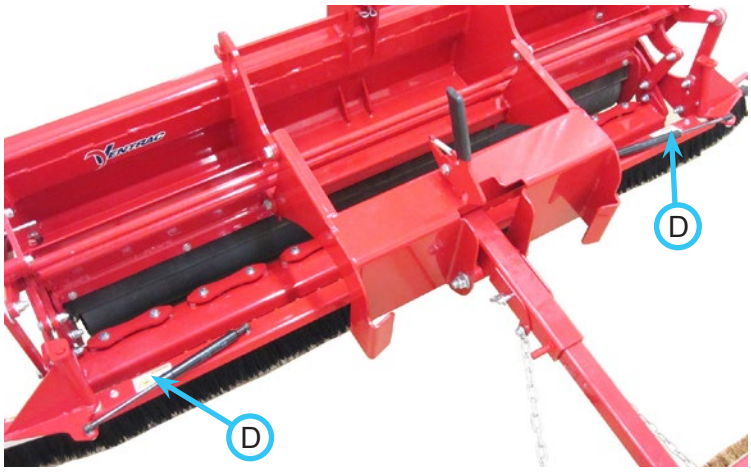

Both Left & Right Sides

C




D




| Decal | Description | Part Number | Quantity |
|---|---|---|---|
| A | Warning, Read Owner's Manual | 00.0217 | 1 |
| B | Warning, Pinch Point | 00.0218 | 2 |
| C | Warning, General Safety | 00.0220 | 1 |
| D | Warning, Pinch Point (Groomer Brush Option) | 00.0218 | 6 |

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

### Training Required



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

### Personal Protective Equipment Requirements

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



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

### Operation Safety

- Inspect machine before operation. Repair or replace any damaged, worn, or missing parts. Be sure guards and shields are in proper working condition and are secured in place. Make all necessary adjustments before operating machine.
- Some pictures in this manual may show shields or covers opened or removed in order to clearly illustrate any instructions. Under no circumstance should the machine be operated without these devices in place.
- Alterations or modifications to this machine can reduce safety and could cause damage to the machine. Do not alter safety devices or operate with shields or covers removed.
- Before each use, verify that all controls function properly and inspect all safety devices. Do not operate if controls or safety devices are not in proper working condition.
- Check parking brake function before operating. Repair or adjust parking brake if necessary.
- Observe and follow all safety decals.
- All controls are to be operated from the operator's seat only.
- Always wear a seat belt if the machine has a roll cage/bar installed and in upright position.
- Ensure the attachment or accessory is locked or fastened securely to the power unit before operating.
- Ensure that all bystanders are clear of the power unit and attachment before operating. Stop machine if someone enters your work area.
- Always be alert to what is happening around you, but do not lose focus on the task you are performing. Always look in the direction the machine is moving.
- Look behind and down before backing up to be sure of a clear path.
- If you hit an object, stop and inspect the machine. Make all necessary repairs before operating machine again.
- Stop operation immediately at any sign of equipment failure. An unusual noise can be a warning of equipment failure or a sign that maintenance is required. Make all necessary repairs before operating machine again.

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

### Operation Safety (continued)

- If equipped with a high/low range feature, never shift between high and low range while on a slope. Always move the machine to level ground and engage the parking brake before shifting range.
- Do not leave machine unattended while it is running.
- Always park the machine on level ground.
- Always shut off engine when connecting attachment drive belt to the power unit.
- Never leave the operator's seat without lowering the attachment to the ground, setting the parking brake, shutting off the engine, and removing the ignition key. Make sure all moving parts have come to a complete stop before dismounting.
- Never leave equipment unattended without lowering the attachment to the ground, setting the parking brake, shutting off the engine, and removing the ignition key.
- Only operate in well-lit conditions.
- Do not operate when there is a risk of lightning.
- Never direct the discharge of any attachment in the direction of people, buildings, animals, vehicles, or other objects of value.
- Never discharge material against a wall or obstruction. Material may ricochet back towards the operator.
- Use extra caution when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- Do not run the engine in a building without adequate ventilation.
- Do not touch the engine or the muffler while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause a burn.
- Do not change the engine governor settings or over-speed the engine. Operating engine at excessive speed may increase the hazard of personal injury.
- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, and excessive grease.

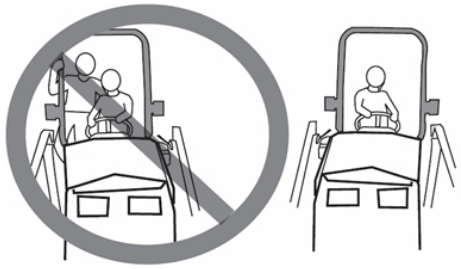
### Preventing Accidents



- Clear working area of objects that might be hit or thrown from machine.
- Keep people and pets out of mowing area.
- Know the work area well before operation. Do not operate where traction or stability is questionable.
- Reduce speed when you are operating over rough ground.
- Equipment can cause serious injury and/or death when improperly used. Before operating, know and understand the operation and safety of the power unit and the attachment being used.



- Do not operate machine if you are not in good physical and mental health, if you will be distracted by personal devices, or are under the influence of any substance which might impair decision, dexterity, or judgment.
- Children are attracted to machine activity. Be aware of children and do not allow them in the working area. Turn off the machine if a child enters the work area.

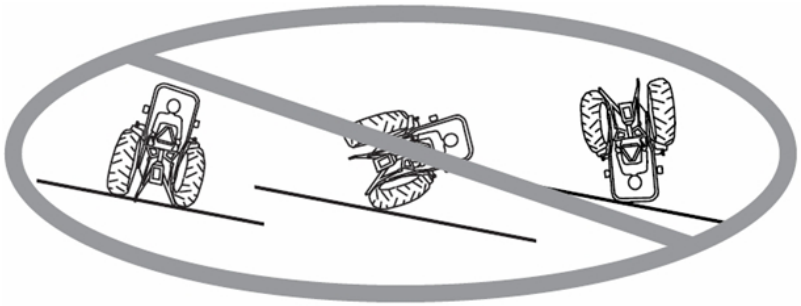


### Keep Riders Off

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

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

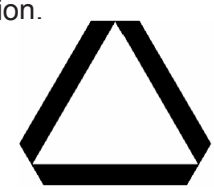
### Operating On Slopes



- Slopes can cause loss-of-control and tip-over accidents, which can result in severe injury or death. Be familiar with the emergency parking brake, along with the power unit controls and their functions.
- If power unit is equipped with a fold down roll bar, it must be locked in the upright position when operating on any slope.
- Use low range (if equipped) when operating on slopes greater than 15 degrees.
- Do not stop or start suddenly when operating on slopes.
- Never shift between high and low range while on a slope. Always move the power unit to level ground and engage the parking brake before shifting range or placing the power unit in neutral.
- Variables such as wet surface and loose ground will reduce the degree of safety. Do not drive where machine could lose traction or tip over.
- Keep alert for hidden hazards in the terrain.
- Stay away from drop-offs, ditches, and embankments.
- Sharp turns should be avoided when operating on slopes.
- Pulling loads on hills decreases safety. It is the responsibility of the owner/operator to determine loads that can safely be controlled on slopes.
- Transport machine with attachment lowered or close to the ground to improve stability.
- While operating on slopes, drive in an up and down direction when possible. If turning is necessary while driving across slopes, reduce speed and turn slowly in the downhill direction.
- Assure a sufficient supply of fuel for continuous operation. A minimum of one-half tank of fuel is recommended.

### Roadway Safety

- Operate with safety lights when operating on or near roadways.
- Obey all state and local laws concerning operation on roadways.
- Slow down and be careful of traffic when operating near or crossing roadways. Stop before crossing roads or sidewalks. Use care when approaching areas or objects that may obscure vision.
- If there is doubt of safety conditions, discontinue machine operation until a time when operation can be performed safely.
- When operating near or on roadways, have a Slow Moving Vehicle Emblem clearly displayed.



### Truck Or Trailer Transport

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

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

### Maintenance

- Keep all safety decals legible. Remove all grease dirt, and debris from safety decals and instructional labels.
- If any decals are faded, illegible, or missing, contact your dealer promptly for replacements.
- When new components are installed, be sure that current safety decals are affixed to the replacement components.
- If any component requires replacement, use only original Ventrac replacement parts.
- Always turn the battery disconnect to the Off position or disconnect the battery before performing any repairs. Disconnect the negative terminal first and the positive terminal last. Reconnect the positive terminal first and the negative terminal last.
- Keep all bolts, nuts, screws, and other fasteners properly tightened.
- Always lower the attachment to the ground, engage parking brake, shut off engine, and remove the ignition key. Make sure all moving parts have come to a complete stop before cleaning, inspection, adjusting or repairing.
- If the power unit, attachment, or accessory requires repairs or adjustments not instructed in the operator's manual, the power unit, attachment, or accessory must be taken to an authorized Ventrac dealer for service.
- Never perform maintenance on the power unit and/or attachment if someone is sitting in the operator's seat.
- Always use protective glasses when handling the battery.
- Check all fuel lines for tightness and wear on a regular basis. Tighten or repair them as needed.
- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, and excessive grease.
- Do not touch the engine, the muffler, or other exhaust components while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause a burn.
- Allow the engine to cool before storing and do not store near an open flame.
- Do not change the engine governor settings or over-speed the engine. Operating engine at excessive speed may increase the hazard of personal injury.
- Springs may contain stored energy. Use caution when disengaging or removing springs and/or spring loaded components.
- An obstruction or blockage in a drive system or moving/rotating parts may cause a buildup of stored energy. When the obstruction or blockage is removed, the drive system or moving/rotating parts may move suddenly. Do not attempt to remove an obstruction or blockage with your hands. Keep hands, feet, and clothing away from all power-driven parts.
- Dispose of all fluids in accordance with local laws.

### Fuel Safety



- To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.
- Do not refuel machine while smoking or at a location near flames or sparks.
- Always refuel the machine outdoors.
- Do not store machine or fuel container indoors where fumes or fuel can reach an open flame, spark, or pilot light.
- Only store fuel in an approved container. Keep out of reach of children.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
- Remove machine from the truck or trailer and refuel it on the ground. If this is not possible, refuel the machine using a portable container, rather than from a fuel dispenser nozzle.
- Never remove fuel cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never remove fuel cap while on a slope. Only remove when parked on a level surface.
- Replace all fuel tank and container caps securely.

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

### Fuel Safety (continued)

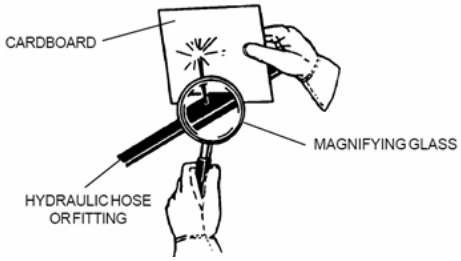
- Do not overfill fuel tank. Only fill to bottom of fuel neck, do not fill fuel neck full. Overfilling of fuel tank could result in engine flooding, fuel leakage from the tank, and damage to the emissions control system.
- If fuel is spilled, do not attempt to start the engine. Move the power unit away from the fuel spill and avoid creating any source of ignition until fuel vapors have dissipated.
- If the fuel tank must be drained, it should be drained outdoors into an approved container.
- Dispose of all fluids in accordance with local laws.
- Check all fuel lines for tightness and wear on a regular basis. Tighten or repair them as needed.
- The fuel system is equipped with a shut-off valve. Shut off the fuel when transporting the machine to and from the job, when parking the machine indoors, or when servicing the fuel system.

### Hydraulic Safety

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



- Keep body and hands away from pinhole leaks or nozzles that eject high pressure hydraulic fluid. Hydraulic fluid escaping under high pressure can penetrate the skin causing serious injury, leading to severe complications and/or secondary infections if left untreated. If hydraulic fluid is injected into the skin, seek immediate medical attention no matter how minor the injury appears.

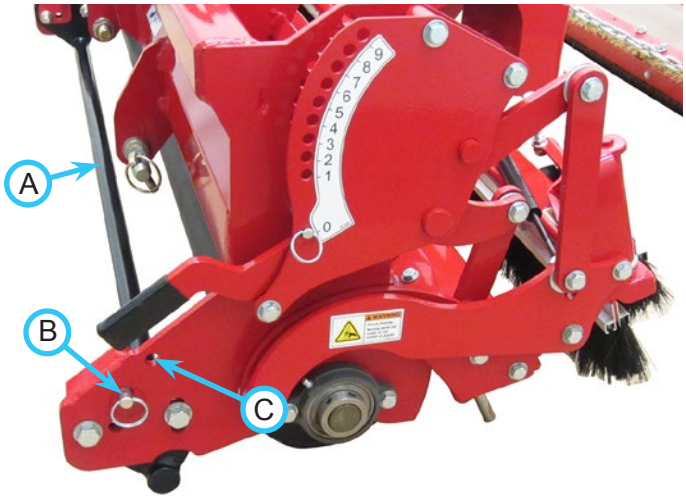



- Hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, remove attachments, engage parking brake, disengage weight transfer system (if equipped), shut off engine, and remove ignition key. To relieve pressure on the auxiliary hydraulic system, shut off the power unit engine and move the secondary S.D.L.A. lever left and right before disconnecting the auxiliary hydraulic quick couplers.
- Dispose of all fluids in accordance with local laws.

# OPERATIONAL CONTROLS

## Leveling Bar

The leveling bar (A) is used to carry and distribute material to fill in low areas. The leveling bar can be allowed to float freely, or can be locked in place for more aggressive use. The leveling bar can be made more aggressive by shortening the 3-point hitch top link or less aggressive by lengthening the 3-point hitch top link.




To lock the leveling bar in place, insert two pins (B) through the frame and the leveling bar end plates. To allow the leveling bar to float, remove the two pins from the frame and leveling bar end plates and place them in the storage holes (C).

## Roller

The roller is used to:

1. Pack down the dirt that has been moved around the field to give the field consistent play and bounce. This also helps preserve the grade of the field. If the ground is left loose, game play and rain may displace the material.
2. Help distinguish areas that need more work to level out.
3. Pushes small rocks back into the dirt to provide better game play conditions with less chance of errant bounces.

The roller is controlled by raising and lowering the 3-point hitch*. During operation the 3-point hitch should be placed in the float position.

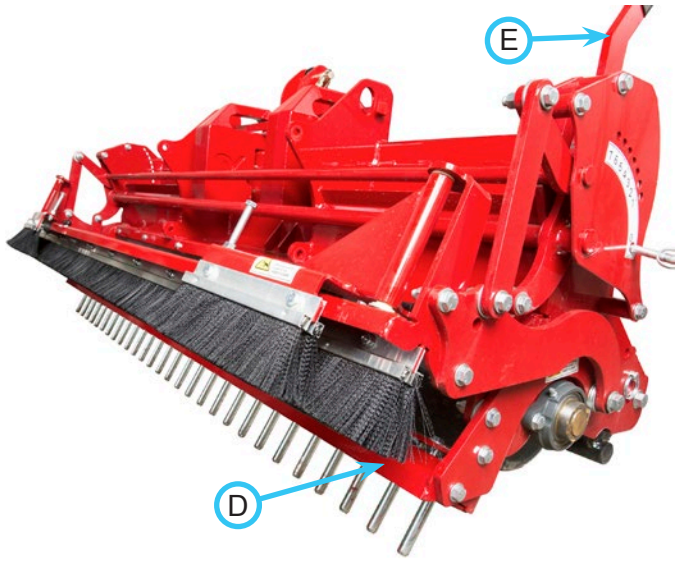
Up to six Ventrac weights can be added to the rear groomer to help pack the field.

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

## Spike Bar

The spike bar (D) is used to:

1. Make grooves in the field surface when it is wet, to create more surface area and accelerate the drying process.
2. Break up ground when the field surface is hard and compacted.

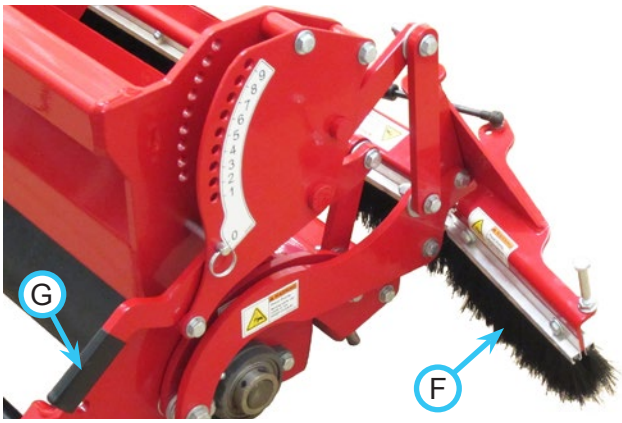



The spike bar can be set to a fixed height by inserting a locking pin through the desired hole in the selector plate and the slot in the spike bar adjustment lever (E). The spike bar can also be made more aggressive by lengthening the 3-point hitch top link or less aggressive by shortening the 3-point hitch top link.

## Groomer Brush (Optional)

The groomer brush (F) is used to give the field a nice finished look in dry conditions. The brush cannot be used in wet conditions.

The groomer brush can be set to a fixed height by inserting a locking pin through the desired hole in the selector plate and the slot in the brush adjustment lever (G). Removing the locking pin will allow the groomer brush to float freely.



## Groomer Drag Kit (Optional)

The groomer drag kit includes both a steel drag and a coco mat drag. The steel and coco mat drags are interchangeable. The drag floats on the ground behind the rear groomer to give the field a finished look.

The steel drag is the most versatile finishing option. It works well in any condition, but will not finish a dry field as nicely as the brush or coco mat drag.

The coco mat drag gives the best finish for dry fields, but cannot be used in wet conditions.

The groomer drag is lifted off the ground when the rear groomer is raised and can be transported short distances in this position.

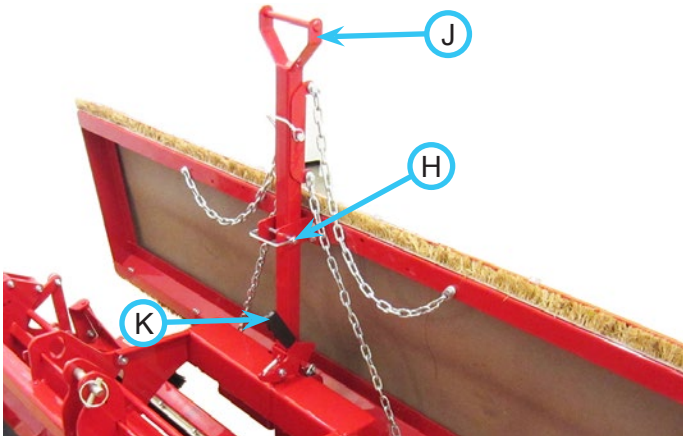
The groomer drag can be folded up for storage or trailer transport.

1. Remove the pin (H) from the drag latch brackets.




2. Lift the handle (J) up until the arm latches on the drag hitch frame.
3. Push in on the top of the drag frame until the drag latch brackets slide past the lift arm tube and reinstall the pin.

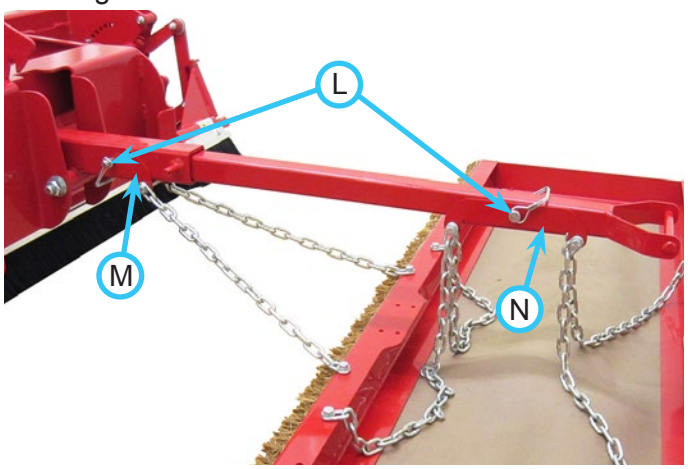
To lower the drag for use:




1. Remove the pin (H) from the drag latch brackets.
2. While holding onto the handle (J), release the drag lift frame latch (K), then lower the drag to the ground.

## Changing Between Steel Drag and Coco Mat Drag

1. Lower the current drag to the ground.
2. Remove the pins (L) that fasten the drag pull bracket (M) and the drag lift bracket (N) to the drag lift arm and receiver tube.




3. Move the groomer until the drag lift arm is positioned over the desired drag.
4. Place the drag pull bracket into position on the drag lift receiver tube and install a pin through the bracket, the receiver tube, and the lift arm.
5. Place the drag lift bracket onto the drag lift arm and fasten with the pin.

## 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 ballpark groomer. Look for loose or missing hardware, damaged components, or signs of wear.
3. 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.
4. Test the power unit's operator safety interlock system*.

## Attaching

1. Move the power unit slowly backward and adjust the 3-point lift arms to align with the lift arm pins on the ballpark groomer. Insert the lift arm pins into the swivel balls on the 3-point lift arms and secure with linch pins.
2. Insert the 3-point top link into the top link hitch plate, install the top link pin, and secure with a linch pin.
3. Park on a level surface and check to ensure the roller is level by lowering until it just contacts the ground.
4. If one side of the roller contacts the ground before the other side, adjust the 3-point lift links until the roller evenly contacts the ground along its entire length.

## Detaching

1. Park the power unit on a level surface and set the parking brake.*
2. Place the spike bar selector lever in the detach position. This will support the ballpark groomer in an upright position for easy reattachment.
3. If equipped with an optional groomer brush, raise the brush all the way up to the detach position. NOTE: do not store with brush resting on the ground or damage to the brush may occur.
4. Lower the ballpark groomer to the ground.
5. Shut off power unit engine.
6. Disconnect the 3-point top link by removing the top link pin from the top link hitch plate.
7. Remove the linch pins from the lift arm pins and slide the lift arm pins out of the lift arm swivel balls.

## Operating Procedures and Tips

The groomer should be operated with the power unit's 3-point hitch arm control lever* in the float position.

Shift the power unit into low range* during groomer operation.

The following tables contain various field conditions along with general guidelines and tips for renovator and groomer use in each condition. For more detailed information and demonstrations, refer to the ballpark renovator and groomer operational video.

| Procedure / Condition | |
|---|---|
| Wet Field - Ground is saturated | |
| **DG550 Front Renovator** | **DR540 Rear Groomer** |
| Engage scarifier tines if there is enough dry dirt available to incorporate into wet areas.<br>If field is saturated, front renovator should be disengaged. | Roller is engaged with the 3-point hitch in the float position.<br>Spike bar engaged.<br>Leveling bar disengaged.<br>Optional brush disengaged. |

Use the spike bar to create more surface area on the field surface to accelerate drying times.

If only low spots contain moisture, the front scarifier tines and rear spikes will allow the operator to pull out wet material and incorporate dry material from around the wet area.

Allow the field to dry before finishing and preparing for game play.

After the field dries, the surface will likely have a crust and grooves that need to be removed. Set the renovator blades on the front renovator just below the surface to break up the crust and remove the grooves, before preparing field for use.

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

| Procedure / Condition | |
|---|---|
| Weed Management / Edge Line Shaping | |
| **DG550 Front Renovator** | **DR540 Rear Groomer** |
| Engage the renovator blades. Set blade depth below roots for edging and middle of the root for weed removal.<br>Leveling bar disengaged.<br>Scarifier tines disengaged. | Fully raised. |

If necessary, add weights to the renovator to penetrate compacted ground.

Cutting large amounts of sod will tend to pull the unit to the side, making it difficult to maintain a straight line. It is better to make multiple passes, removing smaller portions at a time.

Add weights to the front renovator and engage the power unit's weight transfer (set to position # 2 or apply approximately half the weight transfer) to help maintain a straight line or follow the curve of the outfield grass.

To allow the renovator to get closer to the fence when edging or removing weeds from a warning track, remove the pins from the 3-point hitch arm sway bar links, push the rear groomer all the way to one side, and reinstall the pins in the sway bar links.

Remove cut sod and debris after finishing weed removal. Raking away weeds that have been cut out prior to finishing the field will result in a better finish.

| Procedure / Condition | |
|---|---|
| Heavily Compacted Field - Dry, cracked, & very hard | |
| **DG550 Front Renovator** | **DR540 Rear Groomer** |
| Scarifier tines engaged if there are large brittle chunks that need to be broken up. | Roller is engaged with the 3-point hitch in the float position.<br>Spike bar engaged.<br>Leveling bar disengaged.<br>Optional brush disengaged. |

If necessary, add weights to the groomer to penetrate compacted ground.

| Procedure / Condition | |
|---|---|
| Uneven Field / Low Spots | |
| **DG550 Front Renovator** | **DR540 Rear Groomer** |
| Renovator blades engaged and set approximately 1/4 inch (6.5 mm) deep.<br>Scarifier tines placed just above the renovator blades to break up material.<br>Leveling bar engaged and adjusted according to field conditions. | Roller is engaged with the 3-point hitch in the float position.<br>Spike bar disengaged.<br>Leveling bar engaged and adjusted according to field conditions.<br>Optional brush disengaged. |

Leveling is best accomplished in neutral conditions. If the field is wet, material will not elevate enough for the process to work. If the field is to dry, material will elevate, but will not settle enough to be effective. Working with a field that is neither saturated or dusty will yield the best results.

Add weights to the rear groomer as necessary to control packing and minimize surface ripples.

Level in straight lines making the longest passes possible. Do not make sharp turns with either the front renovator or the rear groomer engaged with the ground.

Use a slow, steady speed when moving large amounts of material.

When targeting a low spot, work the ground around and through it in all directions. Moving ground in all directions and constantly packing it on all sides will provide a longer lasting result than working from one direction only.

Field leveling is a process that will not be completed the first time. The field condition will gradually improve as the leveling process is repeated. If the field is allowed to sit without attention for prolonged periods, the field condition will regress back to much of its previous condition.

| Procedure / Condition | |
|---|---|
| Finish Grooming | |
| **DG550 Front Renovator** | **DR540 Rear Groomer** |
| Fully raised. | Roller is engaged with the 3-point hitch in the float position.<br>Spike bar disengaged.<br>Leveling bar engaged if desired.<br>Optional brush engaged if not using drag mat.<br>Drag engaged. Use steel drag in moderate moisture conditions and coco mat drag for dry conditions. |

Finish grooming can be done in either high or low range. Do not operate at high speeds when turning in tight circles to prevent unintentional compaction and tire ruts.

Operating in circles with the drag mat, will create a nice infield finish, while distributing material evenly.

Change the way you finish the field so that you are not always working material the same direction (i.e. if you start at the pitcher's mound and work toward the outside every time, you will work more and more material to the edge and will require leveling more frequently).

**⚠ 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.

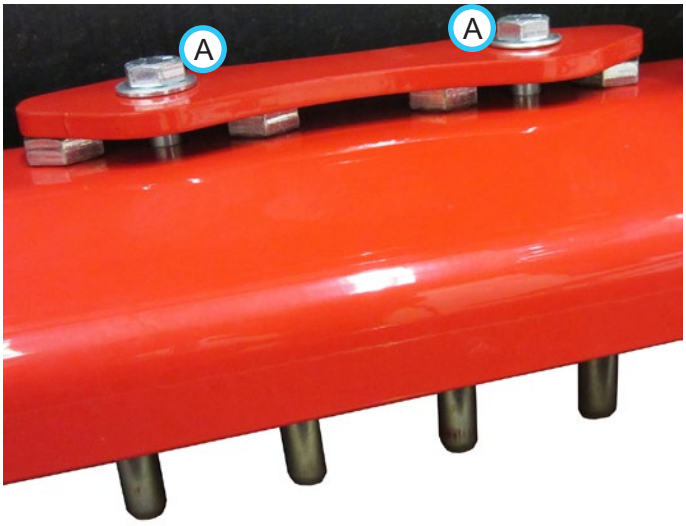
## Cleaning and General Maintenance

For best results, and to maintain the finish of the ballpark groomer, clean or wash the ballpark groomer to remove dust, dirt, and debris.

## Spike Replacement

If a spike requires replacement:

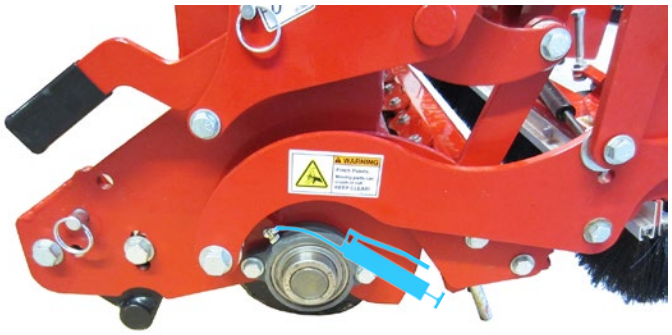
1. Remove the two bolts (A), flat washers, and flange nuts that secure the spike clamp to the spike bar.

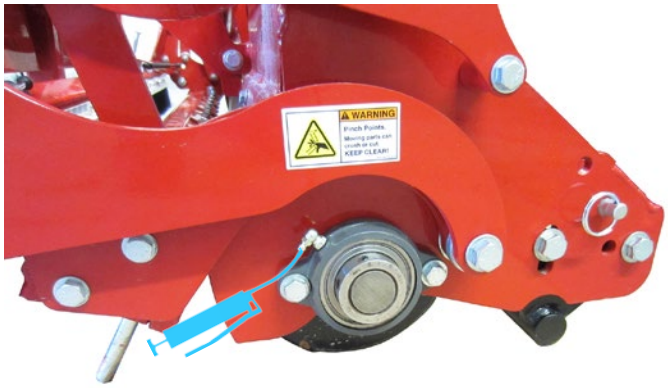



2. Remove the damaged spike and insert a new spike into the hole.
3. Place the spike clamp on top of the spikes and secure with the two bolts, flat washers, and flange nuts. Torque to 31 ft-lbs (42 Nm).

## 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.





## Storage

### Preparing the Ballpark Groomer for Storage

1. Clean the ballpark groomer.
2. Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
3. Inspect safety decals. Replace any safety decals that are faded, illegible, or missing.
4. Apply grease to all grease points.
5. Wipe off all excess grease or oil.

### Removing the Ballpark Groomer from Storage

Inspect, clean, and prepare the ballpark groomer for use.

## Maintenance Schedule

| Maintenance Schedule | # of Locations | # of Pumps | Daily | At 50 Hours | At 100 Hours | At 150 Hours | At 200 Hours | At 250 Hours | At 300 Hours | At 350 Hours | At 400 Hours | At 450 Hours | At 500 Hours | At 550 Hours | At 600 Hours | At 650 Hours | At 700 Hours | At 750 Hours | At 800 Hours | At 850 Hours | At 900 Hours | At 950 Hours | At 1000 Hours | Yearly |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Grease & Lubrication: See Lubrication Section | | | | | | | | | | | | | | | | | | | | | | | | |
| Roller Bearings | 2 | 1 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Inspection | | | | | | | | | | | | | | | | | | | | | | | | |
| Inspect for Loose, Missing, or Worn Components. | | | ✓ | | | | | | | | | | | | | | | | | | | | | |
| Inspect for Bent or Broken Spikes | | | ✓ | | | | | | | | | | | | | | | | | | | | | |
| Inspect Safety Decals | | | ✓ | | | | | | | | | | | | | | | | | | | | | |

## Maintenance Checklist

| Maintenance Checklist | # of Locations | # of Pumps | At 50 Hours | At 100 Hours | At 150 Hours | At 200 Hours | At 250 Hours | At 300 Hours | At 350 Hours | At 400 Hours | At 450 Hours | At 500 Hours | At 550 Hours | At 600 Hours | At 650 Hours | At 700 Hours | At 750 Hours | At 800 Hours | At 850 Hours | At 900 Hours | At 950 Hours | At 1000 Hours | Yearly |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Grease & Lubrication: See Lubrication Section | | | | | | | | | | | | | | | | | | | | | | | |
| Roller Bearings | 2 | 1 | | | | | | | | | | | | | | | | | | | | | |
| Inspection | | | | | | | | | | | | | | | | | | | | | | | |
| Inspect for Loose, Missing, or Worn Components. | | | | | | | | | | | | | | | | | | | | | | | |
| Inspect for Bent or Broken Spikes | | | | | | | | | | | | | | | | | | | | | | | |
| Inspect Safety Decals | | | | | | | | | | | | | | | | | | | | | | | |

# SPECIFICATIONS

## Dimensions

| | |
|---|---|
| Overall Height | 26-1/4 inches (67 cm) |
| Overall Length | 19 inches (48 cm) |
| Overall Length with Brush Kit | 23-1/2 inches (60 cm) |
| Overall Length with Drag Kit | 69-1/2 inches (176.5 cm) |
| Overall Width | 60-1/2 inches (154 cm) |
| Overall Width with Brush Kit | 75-1/2 inches (192 cm) |
| Overall Width with Drag Kit | 73 inches (185 cm) |
| Weight | 315 pounds (143 kg) |
| Weight of Brush Kit | 45 pounds (20.5 kg) |
| Weight Drag Kit with Steel Drag | 137 pounds (62 kg) |
| Weight of Steel Drag | 86 pounds (39 kg) |
| Weight of Drag Kit with Coco Mat Drag | 135 pounds (61 kg) |
| Weight of Coco Mat Drag | 84 pounds (38 kg) |
| Roller Diameter | 7 inches (18 cm) |
| Number of Spikes | 28 |

## Features

Leveling bar carries and distributes material to fill in low areas.

Roller packs down the dirt to give the field consistent play and bounce.

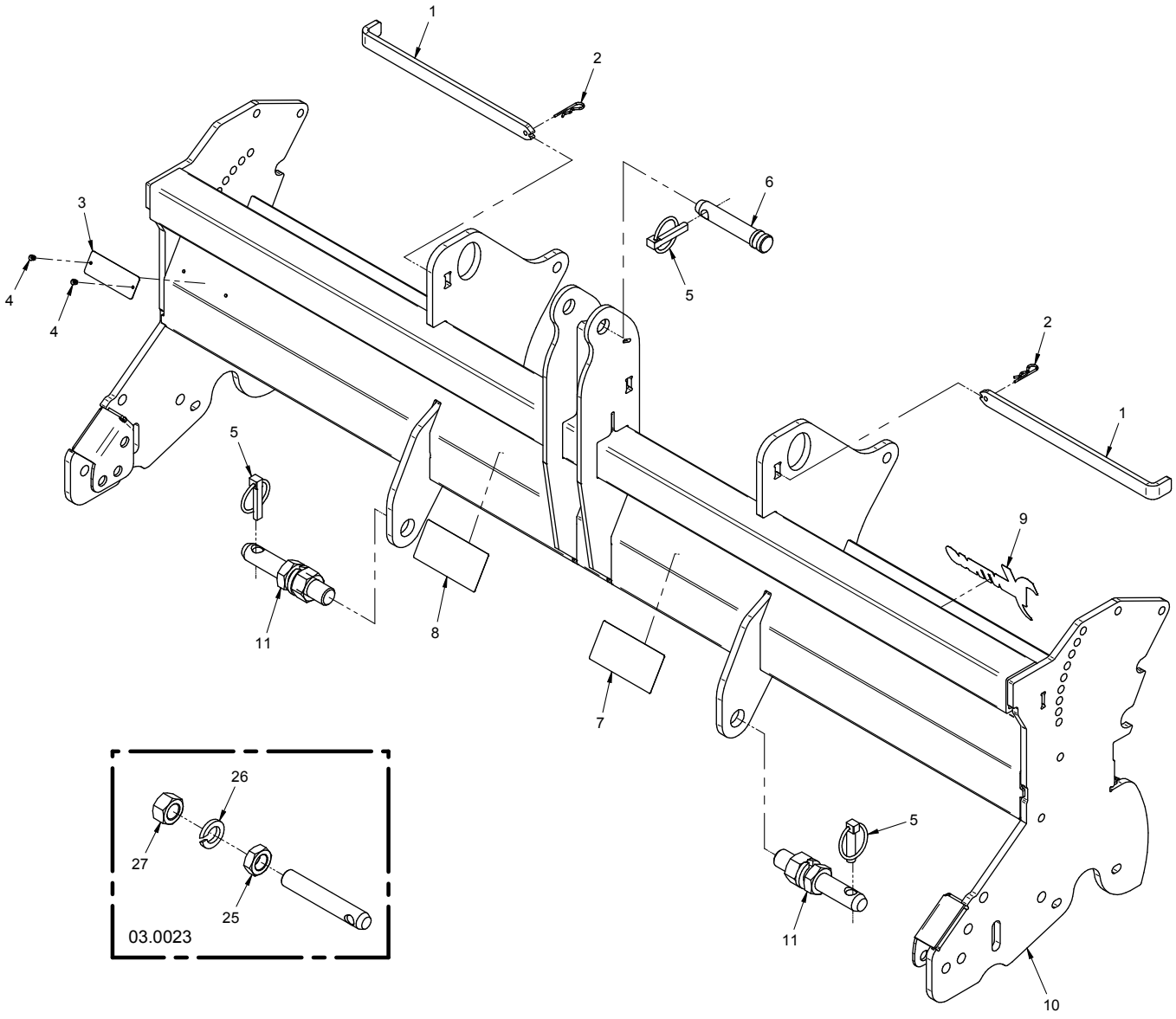
Spike bar opens up a wet field surface to accelerate the drying process.

Optional brush kit for finishing a dry field.

Optional drag kit with both steel and coco mat drags for finishing a field under varying conditions.

Can add up to six Ventrac weights to help pack the field and minimize surface ripples.

## ILLUSTRATED DRAWING
### Main Frame






Use only original Ventrac replacement parts.

# PARTS

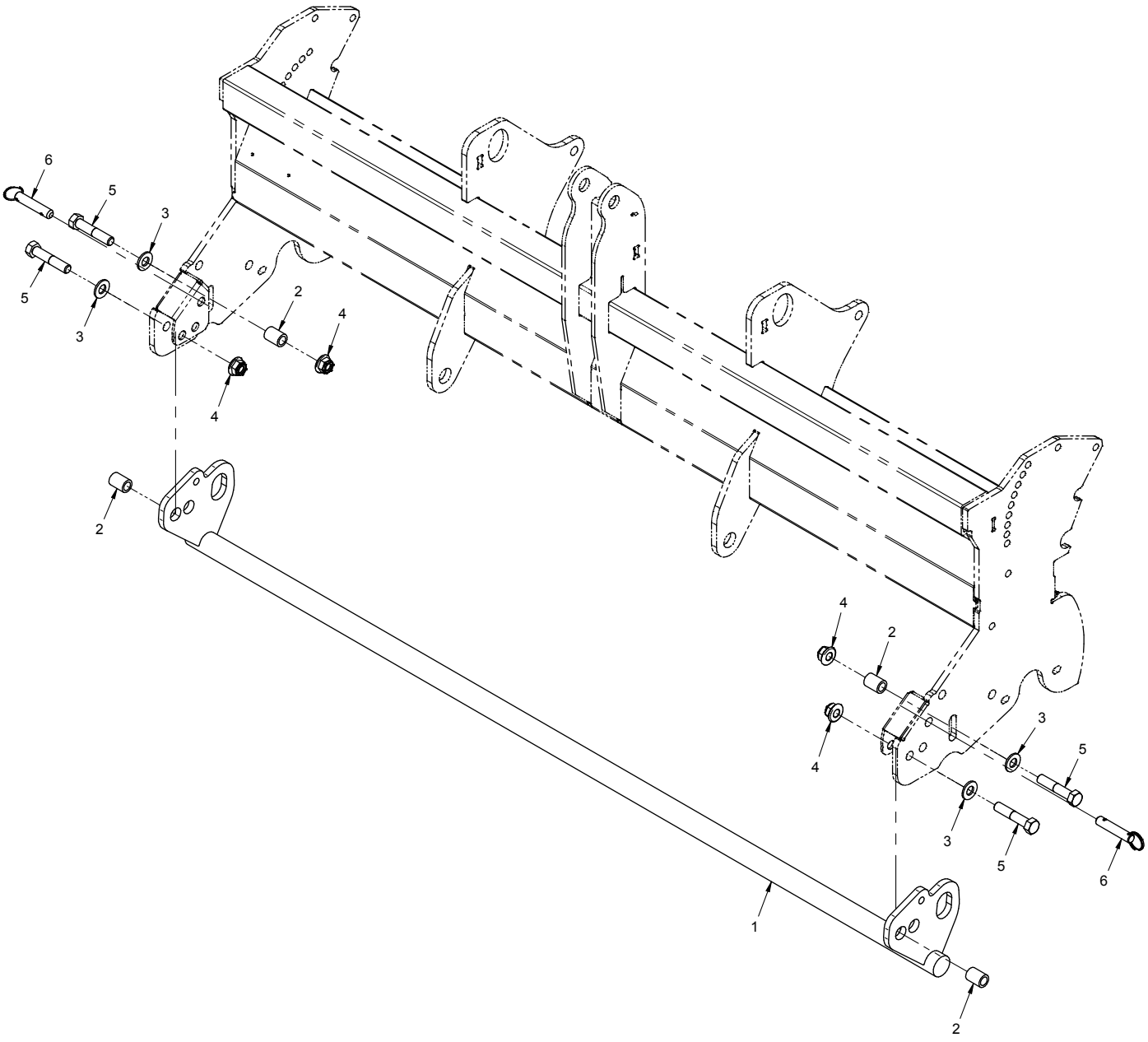
## Main Frame

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 64.1312 | PIN, WEIGHT RETAINER | 2 |
| 2 | 02.HP0313 | HAIRPIN, 3/32 X 1-5/8 | 2 |
| 3 | N/A | PLATE, VENTRAC SERIAL NUMBER | 1 |
| 4 | 04.0007 | RIVET, POP DOME 1/8 X 1/8 S.S. | 2 |
| 5 | 03.0005 | PIN, LINCH | 3 |
| 6 | 03.0004 | PIN, TOP LINK CATEGORY 1 | 1 |
| 7 | 00.0217 | DECAL, WARNING READ OWNERS MAN | 1 |
| 8 | 00.0220 | DECAL, GENERAL SAFETY | 1 |
| 9 | 00.0382 | DECAL, VENTRAC | 1 |
| 10 | 62.1429 | FRAME, MAIN DR540 | 1 |
| 11 | 03.0023 | PIN, LIFT ARM 7/8” X 5-3/4 | 2 |
| 25 | 99.E0074 | NUT, JAM 7/8-14 SAE | 1 |
| 26 | 96.14 | WASHER, LOCK 7/8 | 1 |
| 27 | 93.14 | NUT, 7/8-14 SAE | 1 |



Use only original Ventrac replacement parts.

## ILLUSTRATED DRAWING
### Leveling Bar






Use only original Ventrac replacement parts.

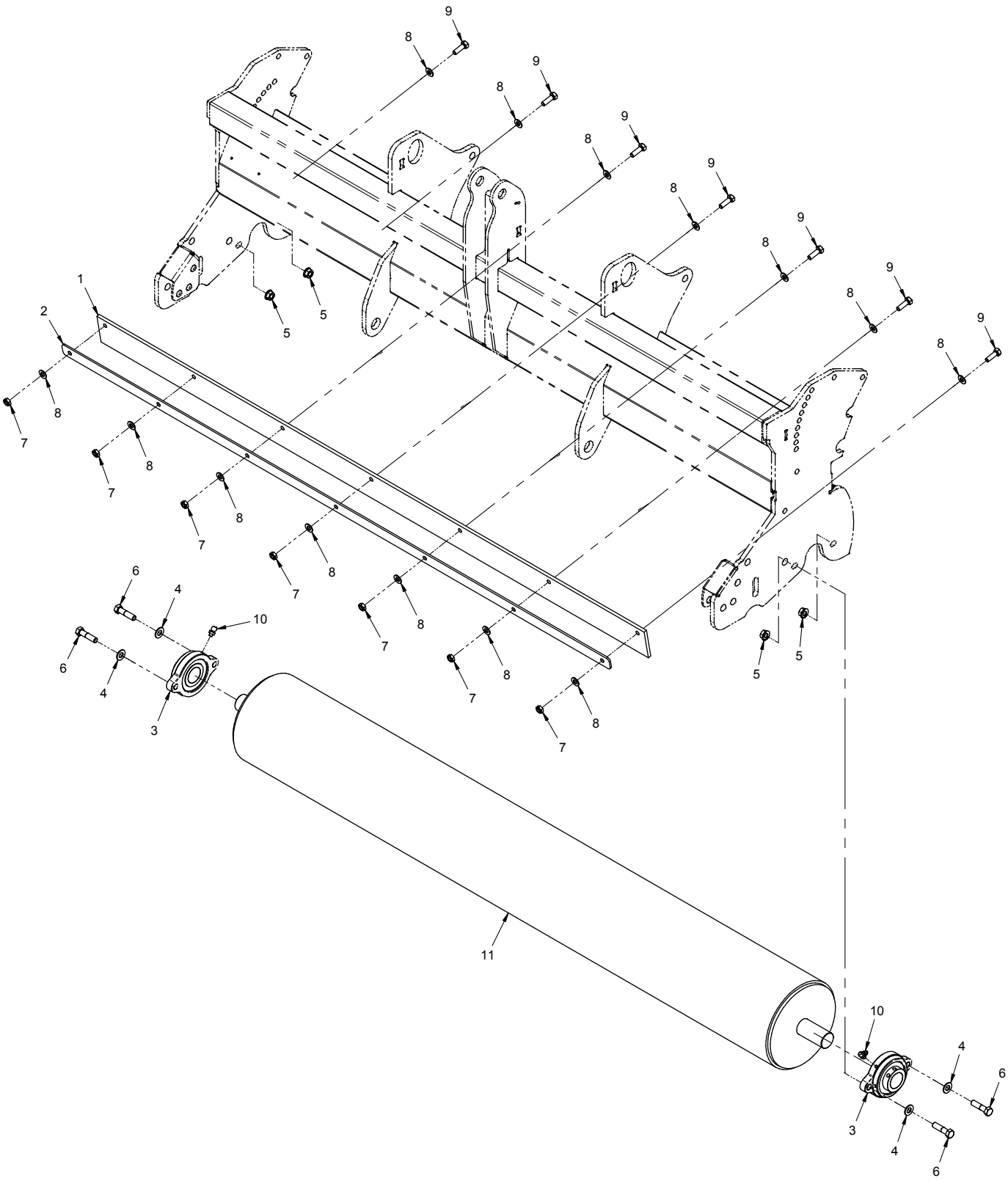
# PARTS

## Leveling Bar

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 62.1430 | FRAME, LEVELING BAR | 1 |
| 2 | 64.1877 | BUSHING, LEVELING BAR PIVOT | 4 |
| 3 | 95.08 | WASHER, FLAT 1/2 SAE | 4 |
| 4 | 99.E0119 | LOCKNUT, NYLON - FLANGE 1/2-13 | 4 |
| 5 | 90.0820 | BOLT, 1/2-13 USS X 2-1/2 | 4 |
| 6 | 03.0007 | PIN, BALL 1/2 X 1.8” | 2 |

## ILLUSTRATED DRAWING

### Rear Roller






Use only original Ventrac replacement parts.

## Rear Roller

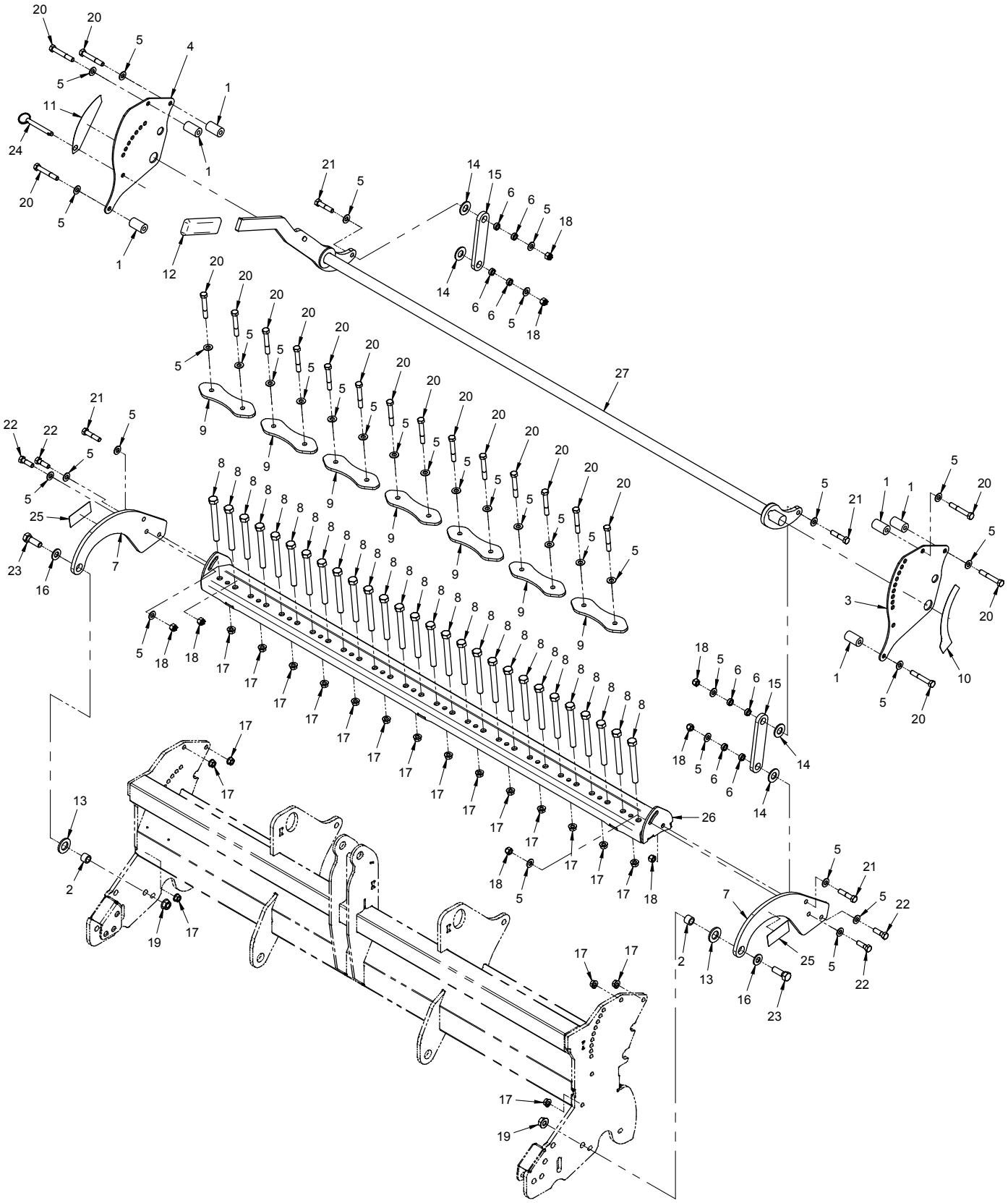
| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 44.0361 | BELTING, ROLLER WIPER | 1 |
| 2 | 64.1871 | CLAMP, ROLLER WIPER | 1 |
| 3 | 55.FB16020 | BEARING, FLANGE BLOCK 1-1/4” | 2 |
| 4 | 95.06 | WASHER, FLAT 3/8 SAE | 4 |
| 5 | 99.SF06 | NUT, SRF 3/8-16 USS | 4 |
| 6 | 90.0612 | BOLT, 3/8-16 USS X 1-1/2 | 4 |
| 7 | 99.A05 | LOCKNUT, STOVER 5/16-18 USS | 7 |
| 8 | 95.05 | WASHER, FLAT 5/16 SAE | 14 |
| 9 | 90.0508 | BOLT, 5/16-18 USS X 1”. | 7 |
| 10 | 29.GF0002 | GREASE FTG, 1/4 SAE 90 | 2 |
| 11 | 80.0386 | ROLLER, REAR 7” | 1 |



Use only original Ventrac replacement parts.

## ILLUSTRATED DRAWING

### Spike Bar





Use only original Ventrac replacement parts.

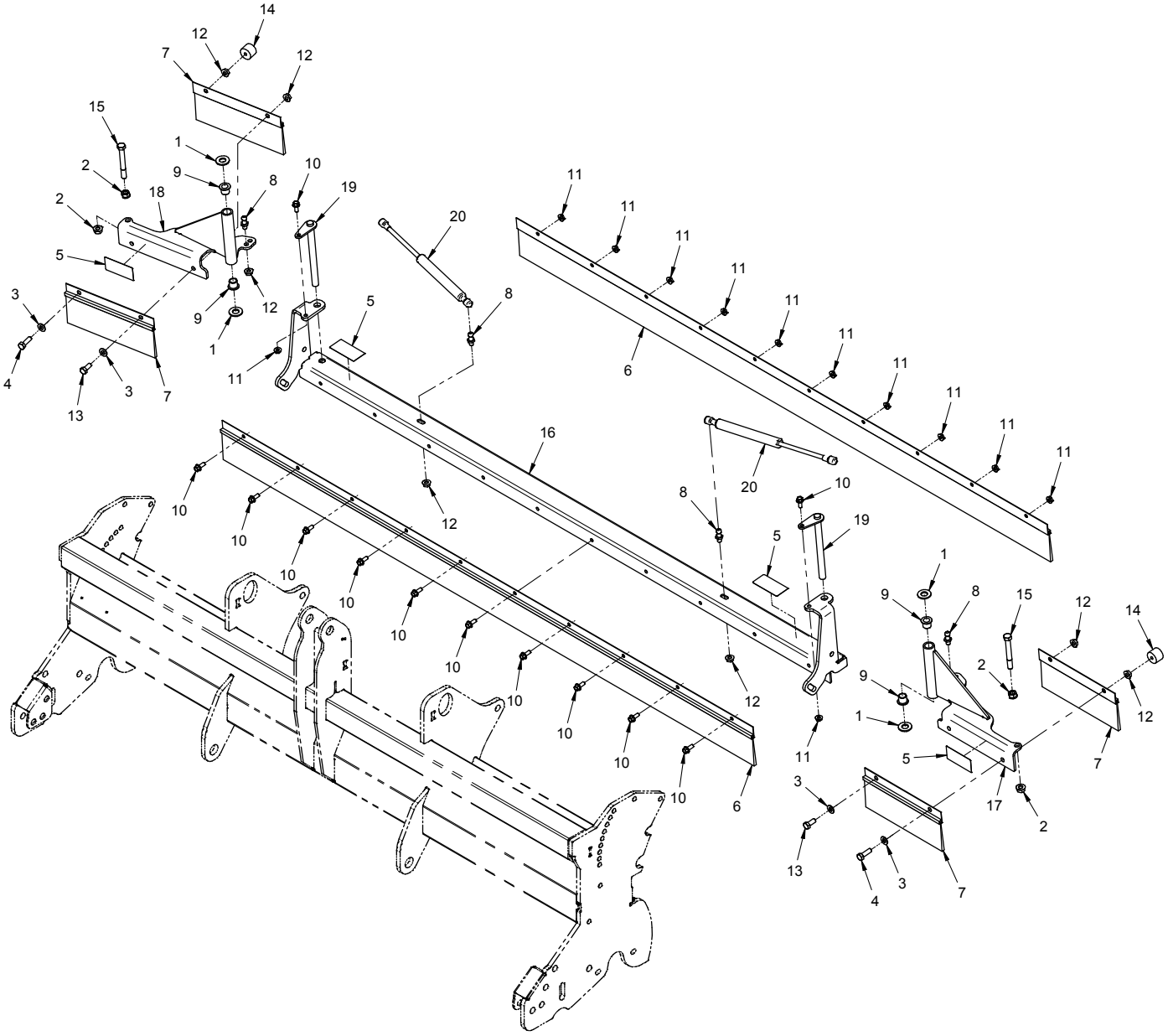
## Spike Bar

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 64.1873 | SPACER, SELECTOR PLATE | 6 |
| 2 | 64.1894 | BUSHING, PIVOT SPIKE BAR | 2 |
| 3 | 60.1261 | PLATE, BROOM SELECTOR. | 1 |
| 4 | 60.1262 | PLATE, SPIKE BAR SELECTOR | 1 |
| 5 | 95.06 | WASHER, FLAT 3/8 SAE | 34 |
| 6 | 64.0602 | BUSHING, 3/8 X 5/8 X .265 | 8 |
| 7 | 40.0397 | PLATE, SPIKE BAR MOUNT PIVOT | 2 |
| 8 | 79.0095 | TINE, SPIKE. | 28 |
| 9 | 64.1872 | CLAMP, SPIKE TINES | 7 |
| 10 | 00.0407 | DECAL, BRUSH HEIGHT ADJUST | 1 |
| 11 | 00.0406 | DECAL, SPIKE BAR HEIGHT ADJUST | 1 |
| 12 | 47.0377 | GRIP, HANDLE BLK FOAM 4-3/4 L | 1 |
| 13 | 95.12 | WASHER, FLAT 3/4 SAE | 2 |
| 14 | 95.10 | WASHER, FLAT 5/8 SAE | 4 |
| 15 | 42.0575 | LINK, SPIKE BAR. | 2 |
| 16 | 95.08 | WASHER, FLAT 1/2 SAE | 2 |
| 17 | 99.SF06 | NUT, SRF 3/8-16 USS | 20 |
| 18 | 99.A06N | LOCKNUT, NYLON 3/8-16 | 8 |
| 19 | 99.SF08 | NUT, SRF 1/2-13 USS | 2 |
| 20 | 90.0620 | BOLT, 3/8-16 USS X 2-1/2 | 20 |
| 21 | 90.0614 | BOLT, 3/8-16 USS X 1-3/4 | 4 |
| 22 | 90.0610 | BOLT, 3/8-16 USS X 1-1/4 | 4 |
| 23 | 90.0812 | BOLT, 1/2-13 USS X 1-1/2 | 2 |
| 24 | 03.0011 | PIN, BALL 3/8 X 2-1/2 | 1 |
| 25 | 00.0218 | DECAL, WARNING PINCH POINT | 2 |
| 26 | 62.1431 | FRAME, SPIKE BAR | 1 |
| 27 | 64.1875 | SHAFT, SPIKE BAR ROCKER. | 1 |



Use only original Ventrac replacement parts.

## ILLUSTRATED DRAWING
## 70.8156 Groomer Brush Frame & Wings






Use only original Ventrac replacement parts.

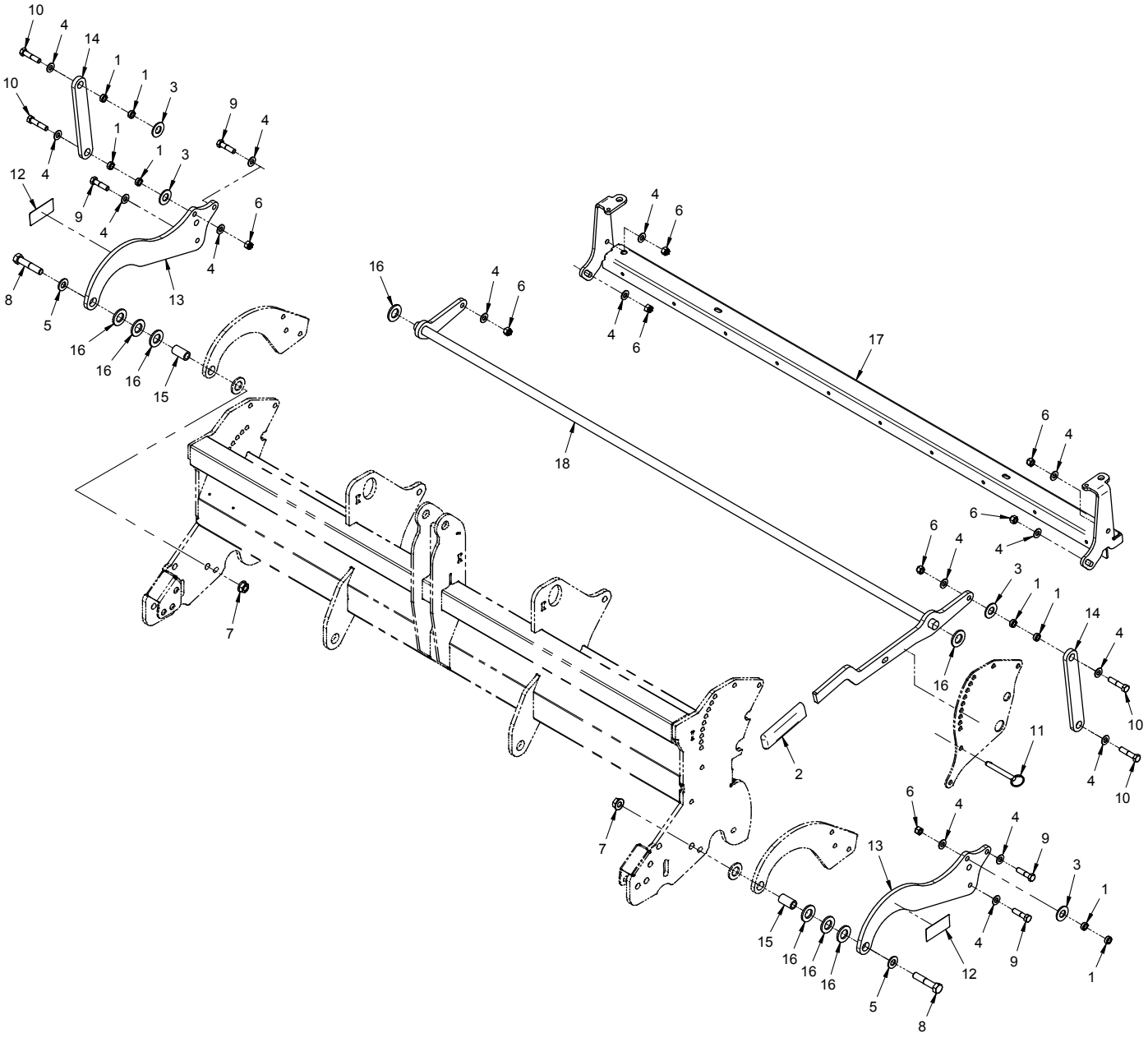
## 70.8156 Groomer Brush Frame & Wings

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 95.08 | WASHER, FLAT 1/2 SAE | 4 |
| 2 | 99.SF06 | NUT, SRF 3/8-16 USS | 4 |
| 3 | 95.05 | WASHER, FLAT 5/16 SAE | 4 |
| 4 | 90.0508 | BOLT, 5/16-18 USS X 1” | 2 |
| 5 | 00.0218 | DECAL, WARNING PINCH POINT | 4 |
| 6 | 79.0099 | BRUSH, GROOMER CENTER | 2 |
| 7 | 79.0100 | BRUSH, GROOMER WING | 4 |
| 8 | 47.0373 | STUD, GAS SPRING SHOCK | 4 |
| 9 | 85.B0027 | BUSHING, 1/2 ID X 5/8 OD X 5/8 | 4 |
| 10 | 99.SF0405-1 | BOLT, SMF 1/4-20 X 5/8 | 12 |
| 11 | 99.SF04 | NUT, SRF 1/4-20 USS | 12 |
| 12 | 99.SF05 | NUT, SRF 5/16-18 USS | 8 |
| 13 | 90.0506 | BOLT, 5/16-18 USS X 3/4” | 2 |
| 14 | 05.0110 | BUMPER, NEOPRENE 1” DIA | 2 |
| 15 | 90.0624 | BOLT, 3/8-16 USS X 3 | 2 |
| 16 | 62.1432 | FRAME, BRUSH MOUNT | 1 |
| 17 | 62.1433 | FRAME, BRUSH MOUNT WING LEFT | 1 |
| 18 | 62.1434 | FRAME, BRUSH MOUNT WING RIGHT | 1 |
| 19 | 64.1881 | PIN, RETAINER - BRUSH WING | 2 |
| 20 | 47.0372 | SHOCK, GAS SPRING | 2 |



Use only original Ventrac replacement parts.

## ILLUSTRATED DRAWING
## 70.8156 Groomer Brush Adjustment Linkage






Use only original Ventrac replacement parts.

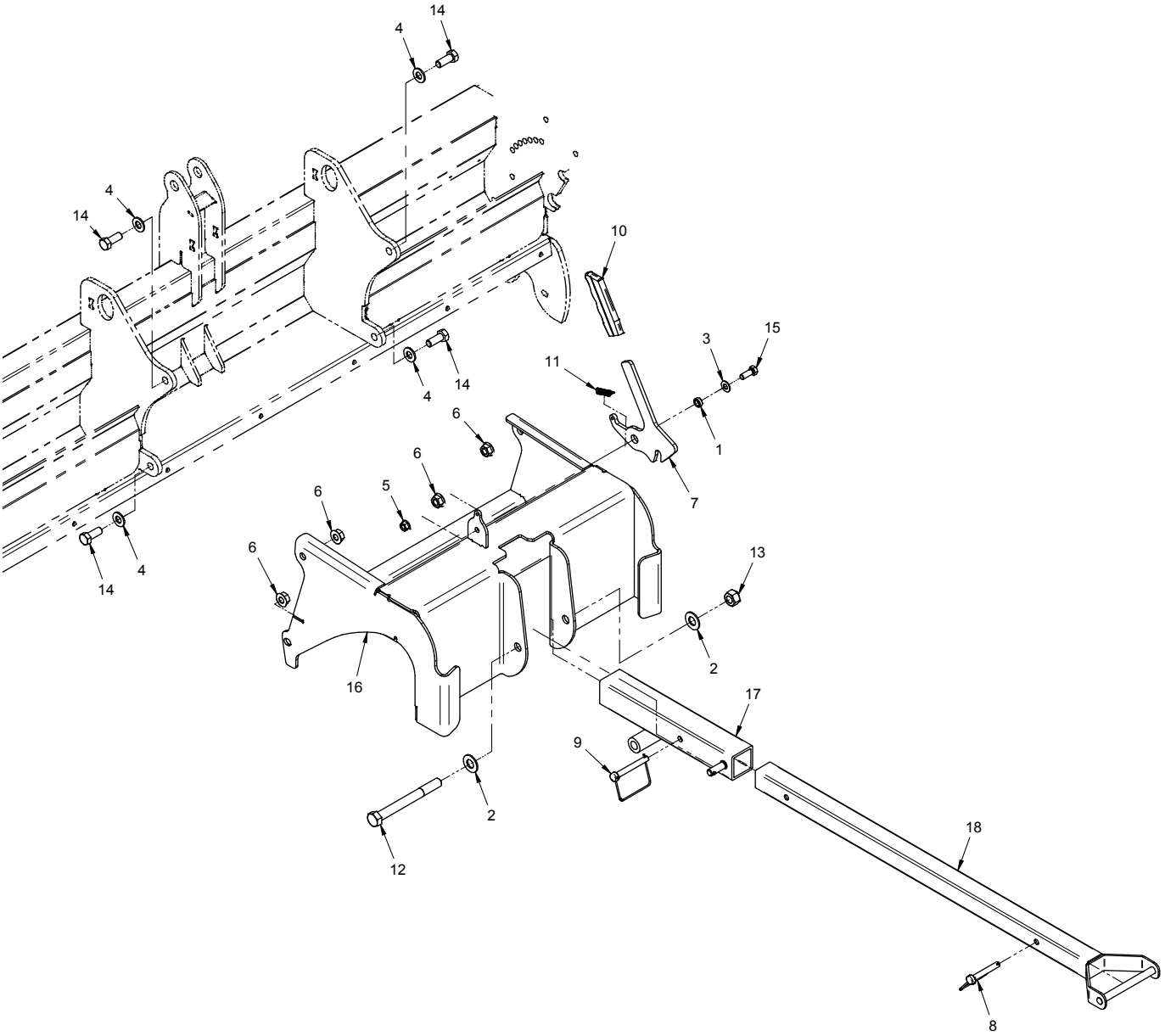
## 70.8156 Groomer Brush Adjustment Linkage

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 64.0602 | BUSHING, 3/8 X 5/8 X .265 | 8 |
| 2 | 47.0377 | GRIP, HANDLE BLK FOAM 4-3/4 L | 1 |
| 3 | 95.10 | WASHER, FLAT 5/8 SAE | 4 |
| 4 | 95.06 | WASHER, FLAT 3/8 SAE | 16 |
| 5 | 95.08 | WASHER, FLAT 1/2 SAE | 2 |
| 6 | 99.A06N | LOCKNUT, NYLON 3/8-16 | 8 |
| 7 | 99.SF08 | NUT, SRF 1/2-13 USS | 2 |
| 8 | 90.0820 | BOLT, 1/2-13 USS X 2-1/2 | 2 |
| 9 | 90.0612 | BOLT, 3/8-16 USS X 1-1/2 | 4 |
| 10 | 90.0614 | BOLT, 3/8-16 USS X 1-3/4 | 4 |
| 11 | 03.0011 | PIN, BALL 3/8 X 2-1/2 | 1 |
| 12 | 00.0218 | DECAL, WARNING PINCH POINT | 2 |
| 13 | 60.1263 | PLATE, BRUSH MOUNT PIVOT | 2 |
| 14 | 42.0576 | LINK, BRUSH | 2 |
| 15 | 64.1874 | BUSHING, PIVOT BRUSH | 2 |
| 16 | 95.12 | WASHER, FLAT 3/4 SAE | 8 |
| 17 | 62.1432 | FRAME, BRUSH MOUNT | 1 |
| 18 | 64.1882 | SHAFT, BRUSH ROCKER | 1 |



Use only original Ventrac replacement parts.

## ILLUSTRATED DRAWING
## 70.8154 Groomer Drag Frame & Arm






Use only original Ventrac replacement parts.

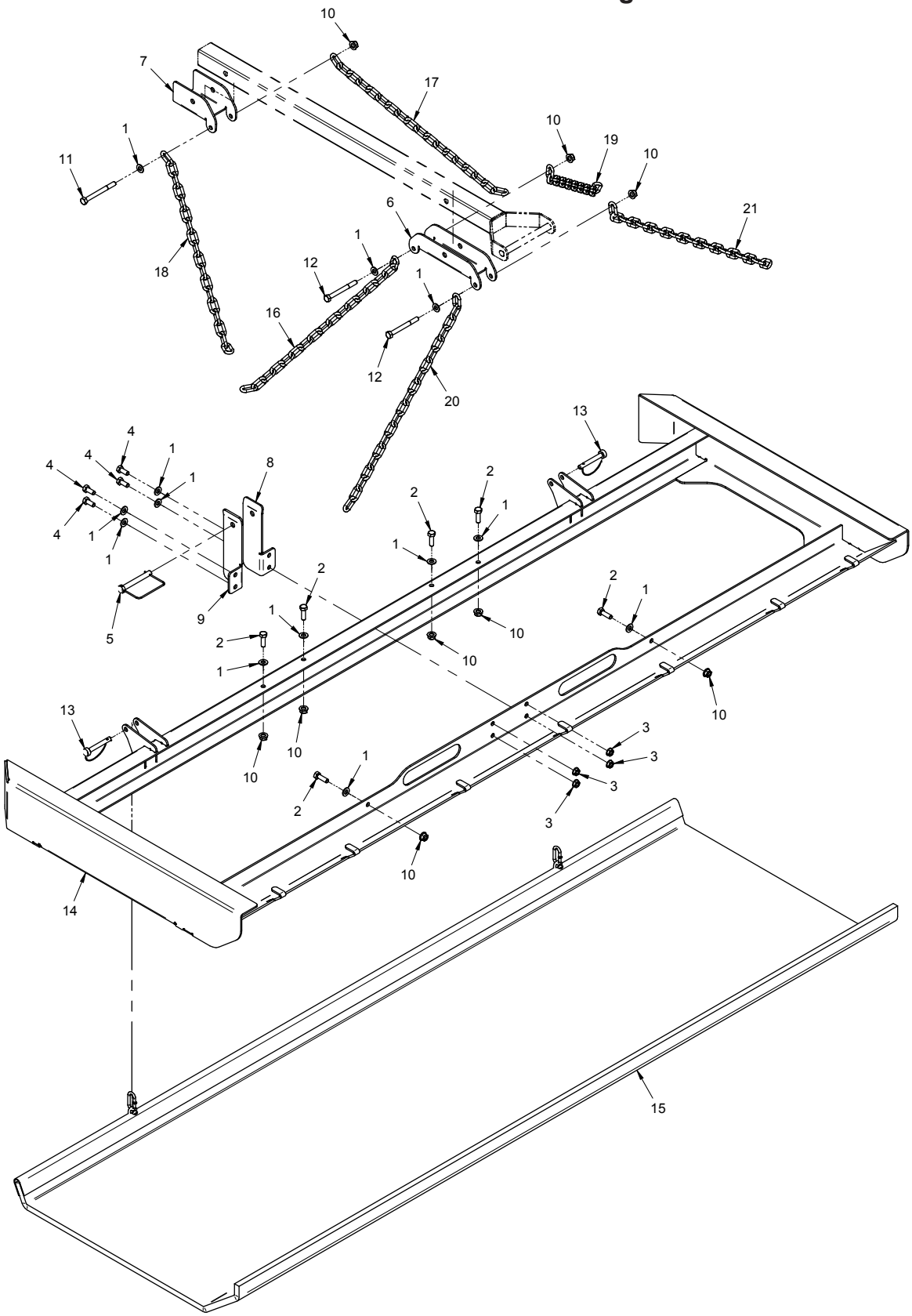
## 70.8154 Groomer Drag Frame & Arm

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 64.0602 | BUSHING, 3/8 X 5/8 X .265 | 1 |
| 2 | 95.10 | WASHER, FLAT 5/8 SAE | 2 |
| 3 | 95.06 | WASHER, FLAT 3/8 SAE | 1 |
| 4 | 95.08 | WASHER, FLAT 1/2 SAE | 4 |
| 5 | 99.SF06 | NUT, SRF 3/8-16 USS | 1 |
| 6 | 99.SF08 | NUT, SRF 1/2-13 USS | 4 |
| 7 | 64.1880 | LATCH, DRAG LIFT FRAME | 1 |
| 8 | 03.0003 | PIN, SAFETY SNAP 3/8 X 2-1/2” | 1 |
| 9 | 03.0015 | PIN, SAFETY SNAP 3/8 X 3” | 1 |
| 10 | 47.0086 | GRIP, SLIP-ON HANDLE - BLACK | 1 |
| 11 | 41.0112 | SPRING, EXT 3/8 X 1-1/2 LNG ZP | 1 |
| 12 | 90.1048 | BOLT, 5/8-11 USS X 6 | 1 |
| 13 | 99.A10 | LOCKNUT, STOVER 5/8-11 USS | 1 |
| 14 | 90.0810 | BOLT, 1/2-13 USS X 1-1/4 | 4 |
| 15 | 90.0608 | BOLT, 3/8-16 USS X 1 | 1 |
| 16 | 62.1435 | FRAME, REAR DRAG HITCH | 1 |
| 17 | 62.1436 | FRAME, DRAG LIFT | 1 |
| 18 | 40.0398 | ARM, DRAG LIFT | 1 |



Use only original Ventrac replacement parts.

## ILLUSTRATED DRAWING
## 70.8154 Groomer Steel Drag






Use only original Ventrac replacement parts.

# PARTS

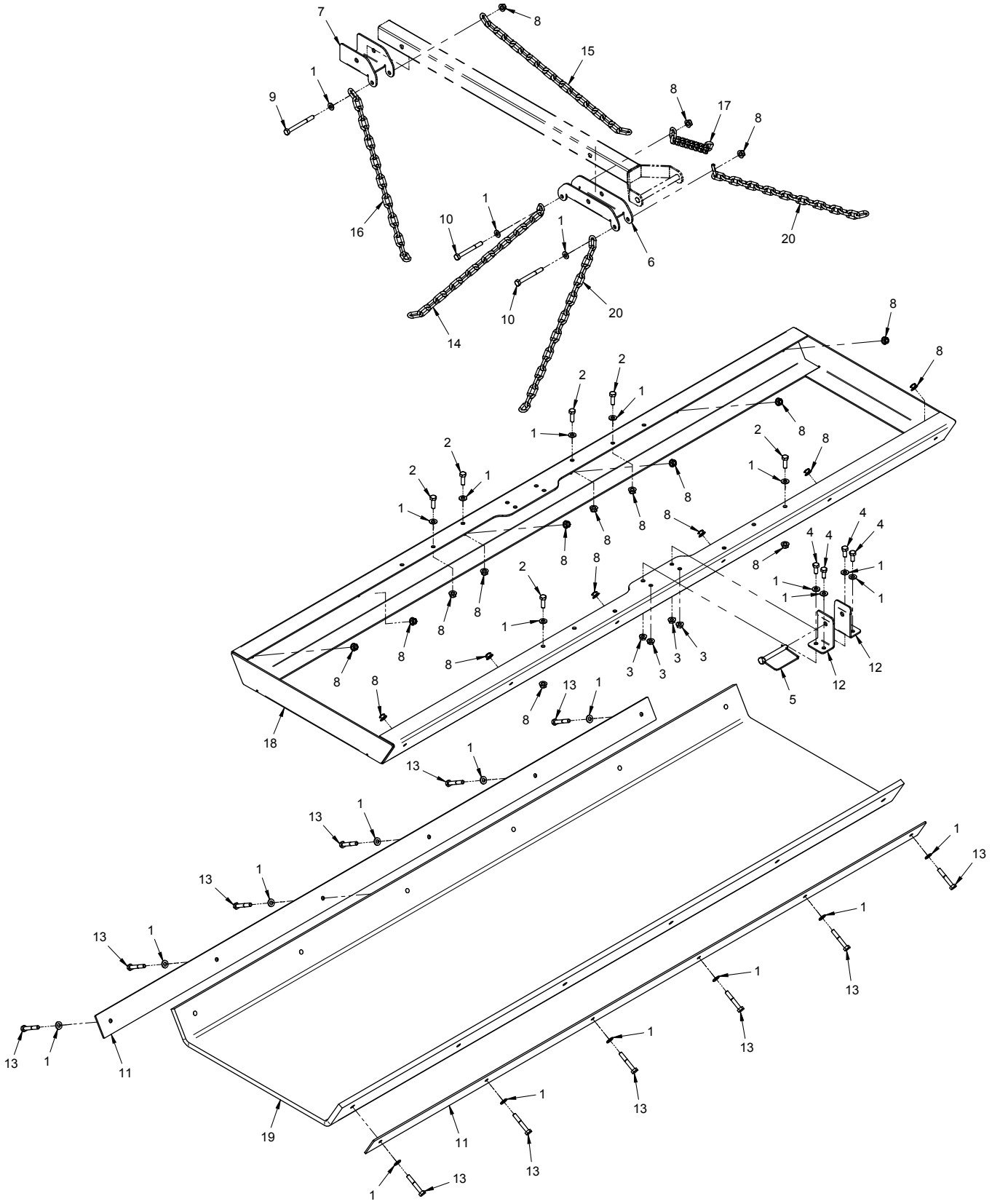
## 70.8154 Groomer Steel Drag

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 95.05 | WASHER, FLAT 5/16 SAE | 13 |
| 2 | 90.0508 | BOLT, 5/16-18 USS X 1” | 6 |
| 3 | 99.SF05 | NUT, SRF 5/16-18 USS | 4 |
| 4 | 90.0506 | BOLT, 5/16-18 USS X 3/4” | 4 |
| 5 | 03.0015 | PIN, SAFETY SNAP 3/8 X 3” | 1 |
| 6 | 64.1876 | BRACKET, DRAG LIFT | 1 |
| 7 | 64.1895 | BRACKET, DRAG PULL | 1 |
| 8 | 64.1896 | BRACKET, CHAIN DRAG LATCH RHT | 1 |
| 9 | 64.1897 | BRACKET, CHAIN DRAG LATCH LFT | 1 |
| 10 | 99.E0102 | NUT, LOCKING FLANGE 5/16-18 | 9 |
| 11 | 90.0526 | BOLT, 5/16-18 USS X 3-1/4” | 1 |
| 12 | 90.0524 | BOLT, 5/16-18 USS X 3” | 2 |
| 13 | 03.0024 | PIN, SAFETY SNAP 5/16 X 1-3/4 | 2 |
| 14 | 62.1437 | FRAME, STEEL CHAIN DRAG | 1 |
| 15 | 47.0374 | DRAG, STEEL MAT - 72” X 26” | 1 |
| 16 | 81.0158 | CHAIN, 3/16 X 25” - 26 LINKS | 2 |
| 17 | 81.0159 | CHAIN, 3/16 X 16” - 18 LINKS | 2 |
| 18 | 81.0159 | CHAIN, 3/16 X 16” - 18 LINKS | 2 |
| 19 | 81.0158 | CHAIN, 3/16 X 25” - 26 LINKS | 2 |
| 20 | 81.0158 | CHAIN, 3/16 X 25” - 26 LINKS | 1 |
| 21 | 81.0158 | CHAIN, 3/16 X 25” - 26 LINKS | 1 |



Use only original Ventrac replacement parts.

## ILLUSTRATED DRAWING
## 70.8154 Groomer Coco Mat Drag






Use only original Ventrac replacement parts.

## 70.8154 Groomer Coco Mat Drag

| REF. | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 95.05 | WASHER, FLAT 5/16 SAE | 25 |
| 2 | 90.0508 | BOLT, 5/16-18 USS X 1” | 6 |
| 3 | 99.SF05 | NUT, SRF 5/16-18 USS | 4 |
| 4 | 90.0506 | BOLT, 5/16-18 USS X 3/4” | 4 |
| 5 | 03.0015 | PIN, SAFETY SNAP 3/8 X 3” | 1 |
| 6 | 64.1876 | BRACKET, DRAG LIFT | 1 |
| 7 | 64.1895 | BRACKET, DRAG PULL | 1 |
| 8 | 99.E0102 | NUT, LOCKING FLANGE 5/16-18 | 21 |
| 9 | 90.0526 | BOLT, 5/16-18 USS X 3-1/4” | 1 |
| 10 | 90.0524 | BOLT, 5/16-18 USS X 3” | 2 |
| 11 | 64.1898 | CLAMP, COCOA DRAG MAT | 2 |
| 12 | 64.1879 | BRACKET, DRAG LATCH | 2 |
| 13 | 90.0516 | BOLT, 5/16-18 USS X 2” | 12 |
| 14 | 81.0158 | CHAIN, 3/16 X 25” - 26 LINKS | 2 |
| 15 | 81.0159 | CHAIN, 3/16 X 16” - 18 LINKS | 2 |
| 16 | 81.0159 | CHAIN, 3/16 X 16” - 18 LINKS | 2 |
| 17 | 81.0158 | CHAIN, 3/16 X 25” - 26 LINKS | 2 |
| 18 | 62.1439 | FRAME, COCOA MAT DRAG | 1 |
| 19 | 47.0375 | DRAG, COCOA MAT - 72” X 24” | 1 |
| 20 | 81.0158 | CHAIN, 3/16 X 25” - 26 LINKS | 2 |



Use only original Ventrac replacement parts.

# WARRANTY

## LIMITED WARRANTY - VENTRAC TURF EQUIPMENT

Venture Products, Inc. (shall be 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.

Effective September 1st 2005, Ventrac warranty on power units & attachments (excluding the HG100/HG150 generator) for **residential use only** is limited to **three (3) years** from original purchase date. Ventrac power units & attachments used **commercially or for any income-producing purpose** is limited to **two (2) years** from original purchase date. Ventrac ET200 turbine blower (turbine only) is limited to **two (2) years** from original purchase date. Ventrac HG100/HG150 generator is limited to **one (1) year** from original purchase date. Ventrac power units & attachments used for **rental** is limited to **180 days** from original purchase date. (**NOTE:** All accessories such as: 3-point hitch, foot pedal, dual wheel kit, etc. will be covered under the above warranty periods as they would apply 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. In the event that product/s originally registered as **(3) year residential use** are to be transferred to a commercial user, the warranty would change to the remainder of **(2) year commercial use** starting from the original purchase/registration date with the dealership and/or V.P.I.

If this warranty covers a consumer product as defined by the Magnusson-Moss warranty act, no warranties, express or implied, (including, but not limited to, the warranty of merchantability or fitness for a particular purpose) shall extend beyond the applicable time period stated in bold face type above.

If this warranty covers a product used commercially or for any income producing purpose, the foregoing warranties are in lieu of all other warranties and no representations, guarantees or warranties, express or implied, (including, but not limited to, a warranty of merchantability or fitness for a particular purpose), are made by V.P.I. in connection with the manufacture or sale of its products.

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.

The Ventrac turf equipment, including any defective parts, must be returned to an authorized Ventrac dealer within the warranty period. The warranty shall extend to the cost to repair or replace (as determined by V.P.I.) the defective part. **The expense of pickup and delivery of equipment, service call drive time or any transportation expense incurred for warranty repair is the sole responsibility of the owner and is not covered under warranty by Ventrac and/or V.P.I.** 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 turf 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 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 turf equipment which is not in accordance with operating instructions as specified in the operator's manual or other operational instructions provided by V.P.I.; (f) repair or replacement arising as a result of any operation from Ventrac turf 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

# WARRANTY

## LIMITED WARRANTY - VENTRAC TURF EQUIPMENT

or that has altered, modified or affected the turf 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 turf 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 turf equipment; or (i) damage or defects due to or arising out of repair of Ventrac turf equipment by person or persons other than an authorized Ventrac service dealer or the installation of parts other than genuine Ventrac parts or Ventrac recommended parts.

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

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

There are no representations or warranties which have been authorized to the buyer of the turf 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 turf equipment sold in the United States and Canada.