



Operator's Manual

DR540

Ballpark Groomer





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To the Owner Contact Information and Product Identification

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

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

Dealer _____ Date of Purchase: _____

Dealer Address: _____

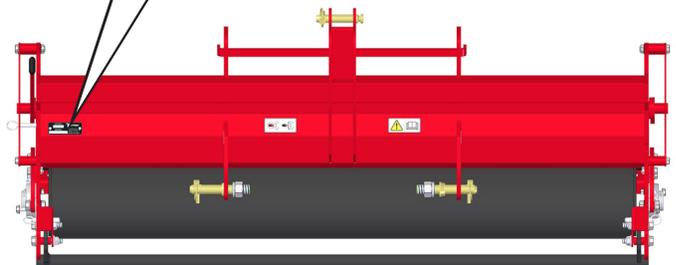
Dealer Phone Number: _____ Dealer Fax Number: _____

With your mobile device, you can scan the QR code on the serial number plate to access manuals, warranty, and other product information.



Model # _____

Serial # _____



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

TABLE OF CONTENTS

INTRODUCTION	PAGE 4
Product Description	4
Why Do I Need an Operator’s Manual?	4
Using Your Manual	5
Manual Glossary	5
SAFETY	PAGE 6
General Safety Procedures	6
Training Required	6
Requirements for Personal Protective Equipment (PPE)	6
Operation Safety.	6
Keep Riders Off	8
Operating On Slopes	8
Truck Or Trailer Transport	9
Maintenance	9
Fuel Safety	10
Hydraulic Safety	11
Safety Decals.	12
OPERATIONAL CONTROLS	PAGE 14
Leveling Bar	14
Roller	14
Spike Bar	14
Groomer Brush (Optional)	15
Groomer Drag Kit (Optional)	15
Changing Between the Steel Drag and the Coco Mat Drag.	16
GENERAL OPERATION	PAGE 17
Daily Inspection	17
Attaching	17
Detaching.	17
Operating Procedures and Tips	17
Transport of the Attachment.	19
SERVICE	PAGE 20
Cleaning and General Maintenance.	20
Spike Replacement	20
Lubrication Locations	20
Storage	21
Maintenance Schedule	21
Maintenance Checklist	21
SPECIFICATIONS	PAGE 22
Dimensions.	22
Features.	22

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.

Please visit our website, or contact your authorized Ventrac dealer for a complete list of items available for your new ballpark groomer.

Scan the QR code or visit <http://ventrac.com/QR/groomer> for an operation overview video of the ballpark groomer and renovator.



	Item Description	Part Number
Accessories	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.

NOTE: if the ballpark groomer is equipped with a groomer drag kit, it should not be used on a power unit with a cab. When the groomer drag is folded up and the ballpark groomer is raised, the groomer drag handle may contact and break the rear window of the cab.

Why Do I Need an Operator's Manual?

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

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

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

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

INTRODUCTION

Using Your Manual

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

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

SYMBOL DEFINITIONS



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

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

SIGNAL WORD DEFINITIONS

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

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

NOTE emphasizes general information that is worthy of special attention.

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

Manual Glossary

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

SAFETY



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.

SAFETY



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



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

SAFETY



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



- 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.
- Power units, attachments, and accessories are not designed or intended for travel on public roadways. Never operate or travel on public roads or highways.
- Operate with safety lights when operating near 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.

Keep Riders Off

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

Operating On Slopes

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

SAFETY



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



- Pulling loads on hills decreases safety. It is the responsibility of the owner/operator to determine loads that can safely be controlled on slopes.
- Transport the machine with the attachment lowered or close to the ground to improve stability.
- While operating on slopes, drive in an up and down direction whenever possible. If turning is necessary while driving across slopes, reduce your speed and turn slowly in the downhill direction.
- Ensure a sufficient supply of fuel for continuous operation. A minimum of one-half tank of fuel is recommended.

Truck Or Trailer Transport

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

Maintenance

- Keep the safety decals legible. Remove all grease, dirt, and debris from the safety decals and instructional labels.
- If any decals are faded, illegible, or missing, contact your dealer promptly for replacements.
- When new components are installed, be sure that the current safety decals are affixed to the replacement components.
- If any component requires replacement, use only original Ventrac replacement parts.
- Always turn the battery disconnect to the Off position or disconnect the battery before performing any repairs. Disconnect the negative terminal first and the positive terminal last. Reconnect the positive terminal first and the negative terminal last.
- Keep all bolts, nuts, screws, and other fasteners properly tightened.
- Always lower the attachment to the ground, engage the parking brake, shut off the engine, and remove the ignition key. Make sure all moving parts have come to a complete stop before cleaning, inspecting, adjusting, or repairing.
- If the power unit, attachment, or accessory requires repairs or adjustments not instructed in the operator's manual, the power unit, attachment, or accessory must be taken to an authorized Ventrac dealer for service.
- Never perform maintenance on the power unit and/or attachment if someone is in the operator's station.
- Always use protective glasses when handling the battery.
- 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,

SAFETY



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



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.

SAFETY



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



Hydraulic Safety

- Make sure the hydraulic connections are tight and all hydraulic hoses and tubes are in good condition. Repair any leaks and replace any damaged or deteriorated hoses or tubes before starting the machine.
- Hydraulic leaks can occur under high pressure. Hydraulic leaks require special care and attention.
- Use a piece of cardboard and a magnifying glass to locate suspected hydraulic leaks.
- Keep your body and hands away from pinhole leaks or nozzles that eject high pressure hydraulic fluid. Hydraulic fluid escaping under high pressure can penetrate the skin causing serious injury, leading to severe complications and/or secondary infections if left untreated. If hydraulic fluid is injected into the skin, seek immediate medical attention no matter how minor the injury appears.
- The hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, remove any attachments, engage the parking brake, disengage the weight transfer system (if equipped), shut off the engine, and remove the ignition key. To relieve pressure on the auxiliary hydraulic system, shut off the power unit engine and move the hydraulic control lever left and right before disconnecting the auxiliary hydraulic quick couplers.

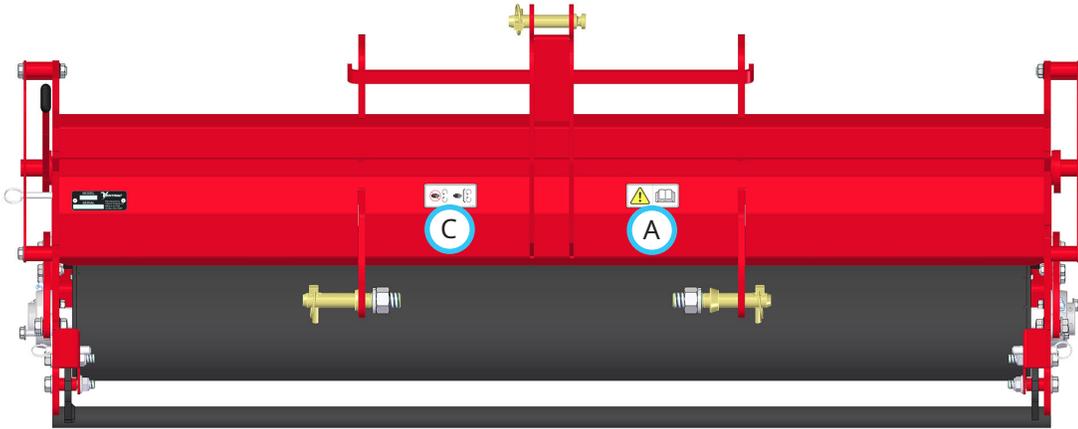
SAFETY

Safety Decals

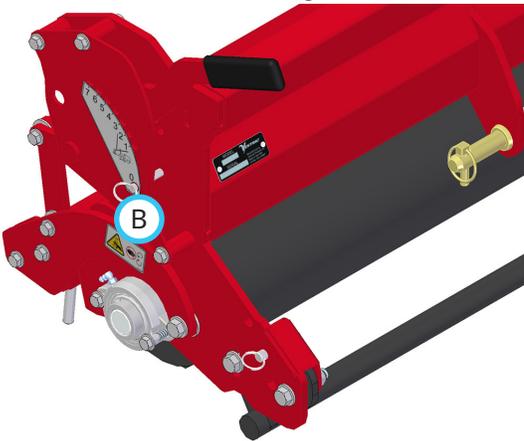
The following safety decals must be maintained on your attachment.

Keep all safety decals legible. Remove all grease, dirt, and debris from safety decals and instructional labels. If any decals are faded, illegible, or missing, contact your dealer promptly for replacements.

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

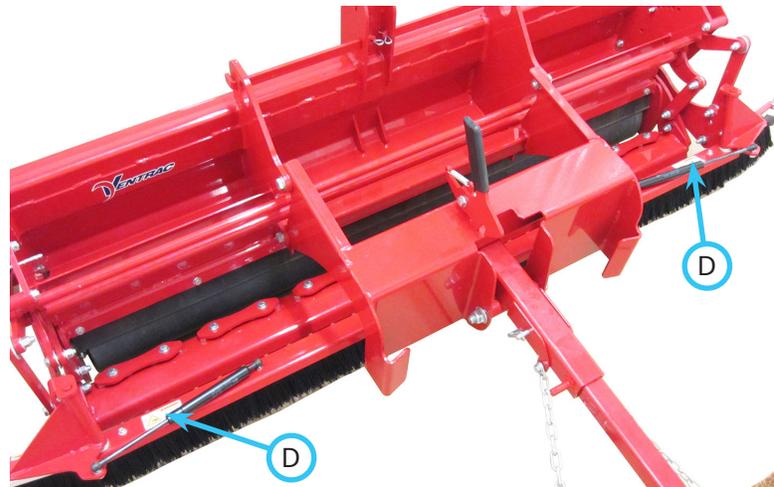
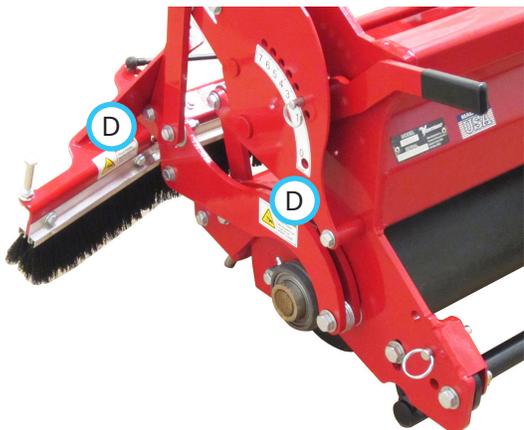


Both Left and Right Sides

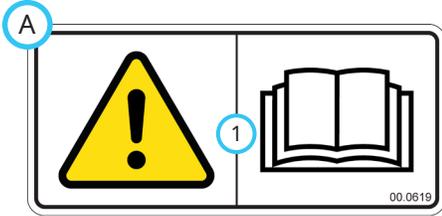


70.8156 Groomer Brush Kit

Both Left and Right Sides



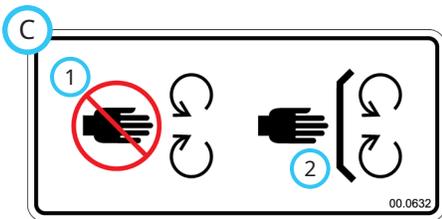
SAFETY



1. Read the operator's manual.



1. Caution - pinch point. Stay away from moving parts.



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



1. Caution - pinch point. Stay away from moving parts.

Decal	Description	Part Number	Quantity
A	Read Operator's Manual	00.0619	1
B	Warning, Pinch Point	00.0364	2
C	Moving Parts Hazard	00.0632	1
D	Warning, Pinch Point (Groomer Brush Option)	00.0364	6

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:

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.

1. Help distinguish areas that need more work to level out.
2. Pushes small rocks back into the dirt to provide better game play conditions with less chance of errant bounces.

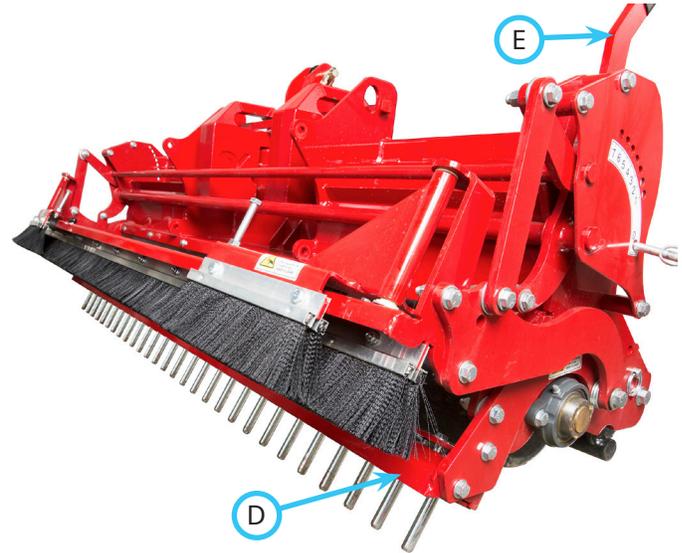
The roller is controlled by raising and lowering the 3-point hitch*. During operation the 3-point hitch should be placed in the float position.

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

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 the ground when the field surface is hard and compacted.



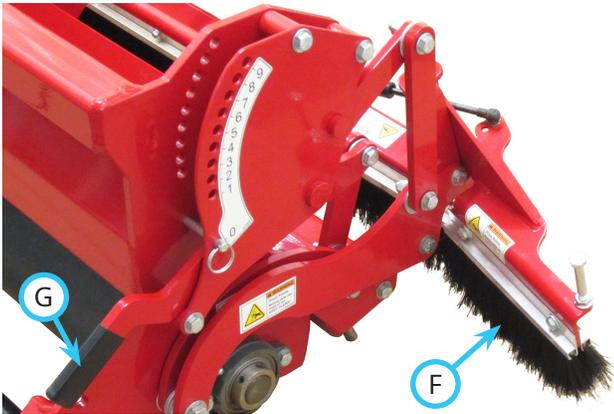
The spike bar can be set to a fixed height by inserting a locking pin through the desired hole in the selector plate and the slot in the spike bar adjustment lever (E). The spike bar can also be made more aggressive by lengthening the 3-point hitch top link or less aggressive by shortening the 3-point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

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

OPERATIONAL CONTROLS

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.

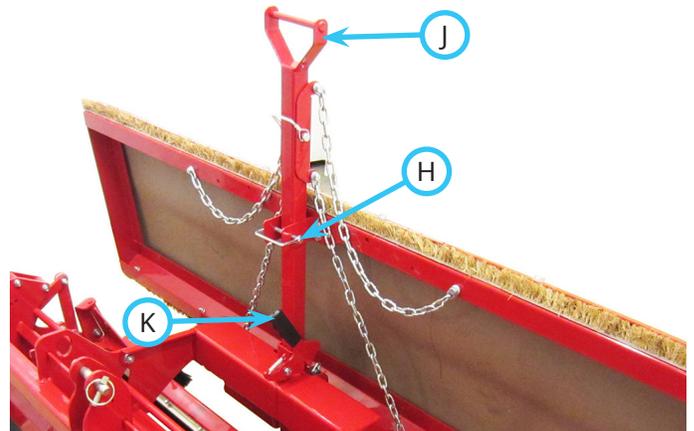
The groomer drag can be folded up for storage or trailer transport.

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:

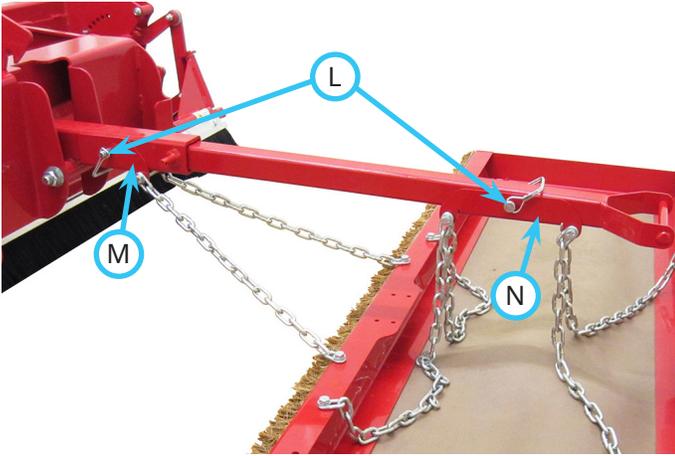


1. Remove the pin (H) from the drag latch brackets.
2. While holding onto the handle (J), release the drag lift frame latch (K), then lower the drag to the ground.

OPERATIONAL CONTROLS

Changing Between the Steel Drag and the 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.

GENERAL OPERATION

Daily Inspection

WARNING

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

1. Park the machine on a level surface, with the engine shut off and all fluids cold.
2. Perform a visual inspection of both the power unit and the attachment. Look for loose or missing hardware, damaged components, or signs of wear.

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

Scan the QR code or visit <http://ventrac.com/QR/groomer> for an operation overview video of the ballpark groomer and renovator.



Before operation, perform the daily inspection and shift the power unit into low range*.

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

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.

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

GENERAL OPERATION

Procedure / Condition	
Wet Field - Ground is saturated	
DG550 Front Renovator	DR540 Rear Groomer
Engage the scarifier tines if there is enough dry dirt available to incorporate into the wet areas. If the field is saturated, the front renovator should be disengaged.	The roller is engaged with the 3-point hitch in the float position. The spike bar is engaged. The leveling bar is disengaged. Optional brush is 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 the 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 the field for use.

Procedure / Condition	
Weed Management / Edge Line Shaping	
DG550 Front Renovator	DR540 Rear Groomer
Engage the renovator blades. Set the blade depth below the roots for edging and at the middle of the root for weed removal. The leveling bar is disengaged. The scarifier tines are 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 the cut sod and debris after finishing weed removal. Raking away the 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 are engaged if there are large brittle chunks that need to be broken up.	The roller is engaged with the 3-point hitch in the float position. The spike bar is engaged. The leveling bar is disengaged. Optional brush is disengaged.

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

GENERAL OPERATION

Procedure / Condition	
Uneven Field / Low Spots	
DG550 Front Renovator	DR540 Rear Groomer
The renovator blades are engaged and set approximately 6.5 mm (1/4 inch) deep. The scarifier tines are placed just above the renovator blades to break up material. The leveling bar is engaged and adjusted according to the field conditions.	The roller is engaged with the 3-point hitch in the float position. The spike bar is disengaged. The leveling bar is engaged and adjusted according to the field conditions. Optional brush is 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 too 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.	The roller is engaged with the 3-point hitch in the float position. The spike bar is disengaged. The leveling bar is disengaged. The optional brush is engaged if you are not using a drag mat. Drag is engaged. Use the steel drag in moderate moisture conditions and the 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).

Transport of the Attachment

Transport the attachment with the power unit 3-point hitch and attachment raised to reduce wear of the equipment. Travel slowly when transporting over undulating and rough surfaces to maintain control of the power unit and to reduce the shock to the power unit and the attachment.

SERVICE

⚠ WARNING

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

ATTENTION

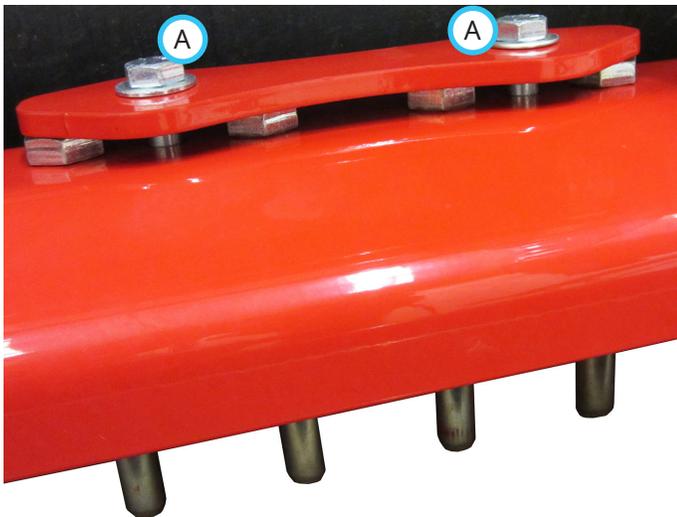
If any component requires replacement, use only original Ventrac replacement parts.

Cleaning and General Maintenance

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

Spike Replacement

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



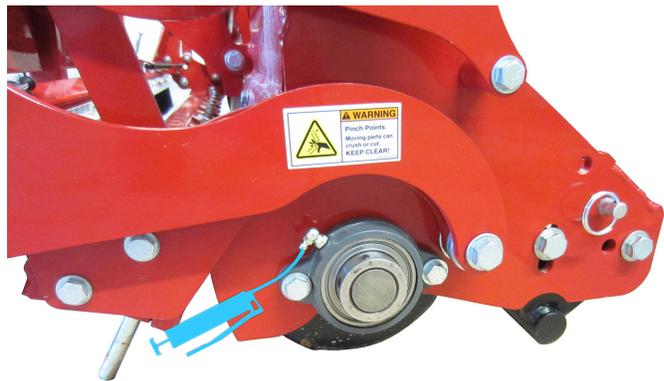
2. Remove the damaged spike and insert a new spike into the hole.
3. Place the spike clamp on top of the spikes and secure with the two bolts, flat washers, and flange nuts. Torque to 42 Nm (31 ft-lbs).

Lubrication Locations

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

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

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



SERVICE

Storage

Preparing the Attachment for Storage

1. Clean the attachment to remove accumulated dust, dirt, and debris.
2. Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
3. Inspect the safety decals. Replace any decals that are faded, illegible, or missing.
4. Apply grease to all grease points and wipe off any excess grease.
5. Inspect the painted components for chips, scratches, or rust. Clean and touch up the surfaces as needed.

Removing the Attachment from Storage

1. Clean the attachment to remove any accumulated dust or debris.
2. Inspect the attachment as instructed in the Daily Inspection section of this manual.
3. Test the attachment to ensure that all the components are working properly.

Maintenance Schedule

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	At 250 hours	At 300 hours	At 350 hours	At 400 hours	At 450 hours	At 500 hours	At 550 hours	At 600 hours	At 650 hours	At 700 hours	At 750 hours	At 800 hours	At 850 hours	At 900 hours	At 950 hours	At 1,000 hours	Yearly
Grease and Lubrication: See Lubrication Section																									
Roller Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspection																									
Inspect for Loose, Missing, or Worn Components				✓																					
Inspect for Bent or Broken Spikes				✓																					
Inspect the Safety Decals				✓																					

Maintenance Checklist

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	At 250 hours	At 300 hours	At 350 hours	At 400 hours	At 450 hours	At 500 hours	At 550 hours	At 600 hours	At 650 hours	At 700 hours	At 750 hours	At 800 hours	At 850 hours	At 900 hours	At 950 hours	At 1,000 hours	Yearly
Grease and Lubrication: See Lubrication Section																									
Roller Bearing	2	1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspection																									
Inspect for Loose, Missing, or Worn Components				✓																					
Inspect for Bent or Broken Spikes				✓																					
Inspect the Safety Decals				✓																					

SPECIFICATIONS

Dimensions

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

Features

- A leveling bar to carry and distribute material to fill in low areas.
- A roller to pack down the dirt to give the field consistent play and bounce.
- A spike bar to open up a wet field surface to accelerate the drying process.
- An optional brush kit for finishing a dry field.
- An optional drag kit with both steel and coco mat drags for finishing a field under varying conditions.
- Ability to add up to six Ventrac weights to help pack the field and minimize surface ripples.