Operator's Manual

DC520 Soil Cultivator





500 Venture Drive 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.

Dealer		Date of Purchase:
Dealer Address	:	
Dealer Phone N	lumber:	Dealer Fax Number:
	the QR code on th to access manuals product informati	Www.vetrac.com Venture Products, Inc. 500 Venture Drive Orrville, Ohio 44607 USA
Serial #		

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 soil cultivator! We hope that Ventrac equipment will provide you with a ONE Tractor Solution.

Product Description

The DC520 soil cultivator prepares bare soil by cultivating even hard, compacted soil into a soft and uniform seed bed for more successful and consistent germination rates.

The soil cultivator consists of four main components that work together to process high volumes of soil and provide the ultimate seed bed. Cultivator tines pulverize the soil and separate debris. Separator tines sift and bury rocks and other large debris below the surface. The distribution blade carries the sifted soil and distributes it evenly across the working surface. The perforated roller creates a pocketed surface for seed and presses small debris below grade.

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.

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

A 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.

A WARNING

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

A 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.



for Ventrac Power Units, Attachments, & Accessories



Training Required

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

Requirements for Personal Protective Equipment (PPE)

- The owner is responsible for ensuring that all the operators use the proper PPE while operating the machine. Whenever you use the machine, use the following PPE:
- Certified eye protection and hearing protection.
- Closed toe, slip resistant footwear.
- Long pants or trousers.
- A dust mask for dusty conditions.
- Additional PPE may be required. Refer to the product safety procedures for any additional requirements.

Operation Safety

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



for Ventrac Power Units, Attachments, & Accessories



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



for Ventrac Power Units, Attachments, & Accessories



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



for Ventrac Power Units, Attachments, & Accessories



- 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, 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.



for Ventrac Power Units, Attachments, & Accessories



- 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.



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.



DC520 Safety Procedures



- Call before you dig. If there is any possibility of buried utilities (cables, gas lines, etc.) in the area where you are working, the utilities must be marked prior to working. There should be a Call Before You Dig number listed in the service / information section of your local telephone directory, or you can find the number for your area online.
- Contact with rotating tines or other moving parts may cause personal injury. Keep your hands and feet away.
- The cultivator tines are sharp. Wear leather gloves when working with the cultivator tines.
- Shut off the PTO to stop the cultivator tines whenever the soil cultivator is lifted out of the ground.
- Clear the work area of any rocks, branches, string, or other debris that may clog the soil cultivator. If any debris becomes jammed in the cultivator, engage the power unit's parking brake, shut off the engine, and remove the ignition key before attempting to remove the debris.
- The attachment hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, the attachment's auxiliary hydraulic hoses must be disconnected from the power unit. Lower the attachment and the roller to the ground, shut off the engine, move the secondary SDLA lever left and right to relieve auxiliary hydraulic pressure, and disconnect the auxiliary hydraulic quick couplers.

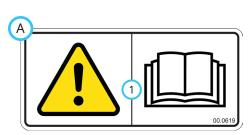
Safety Decals

The following safety decals must be maintained on your attachment.

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

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

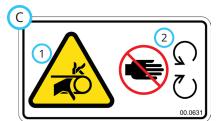




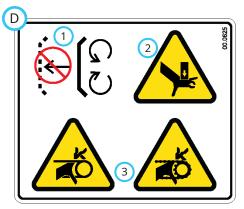
1. Read the operator's manual.



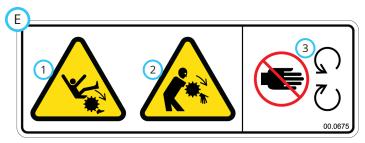
- 1. Keep your body and hands away from suspected hydraulic leaks.
- 2. Wear eye protection when inspecting the hydraulic system for leaks.



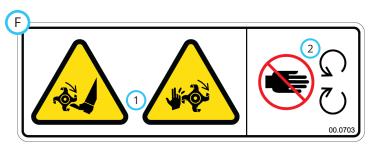
- 1. Finger or hand entanglement hazard.
- 2. Stay away from moving parts.



- 1. Shield missing do not operate.
- 2. Pinching or crushing hazard.
- 3. Finger or hand entanglement.



- 1. Entanglement of foot/leg rotating parts.
- 2. Entanglement of arm/upper body rotating parts.
- 3. Stay away from moving parts.



- 1. Cutting or dismemberment hazard of hand or foot rotating tine.
- 2. Stay away from moving parts.

Decal	Description	Part Number	Quantity
А	Read Operator's Manual	00.0619	1
В	High Pressure Fluid Hazard	00.0621	1
С	Finger/Hand Entanglement Hazard	00.0631	1
D	Shield Missing	00.0625	1
E	Entanglement Hazard	00.0675	2
F	Cutting/Dismemberment Hazard	00.0703	2

OPERATIONAL CONTROLS



Distribution Blade Adjustment Handle (A)

The distribution blade distributes and levels the soil after it passes through the separator tines. The distribution blade depth varies depending on the cultivator depth. After setting the cultivator depth, adjust the distribution blade to carry and smooth the soil. There should be a small amount of soil exiting the right side of the distribution blade.

Primary SDLA Lever

The power unit's primary SDLA lever* raises and lowers the soil cultivator. Pull the lever to the left to raise the cultivator. Push the lever to the right to lower the cultivator. Place the SDLA lever in the float position by pushing the lever to the right until the detent engages.

Secondary SDLA Lever

The power unit's secondary SDLA lever* raises and lowers the roller to control the depth of the soil cultivator. Pull the lever to the left to raise the roller and increase the depth of the soil cultivator. Push the lever to the right to lower the roller and decrease the depth of the soil cultivator.



The decal (B) on the right frame pivot arm indicates the depth of the soil cultivator.

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

Daily Inspection

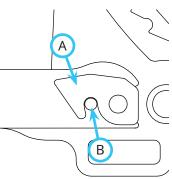
A WARNING

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

- 1. Park the machine on a level surface, with the engine shut off and all fluids cold.
- 2. Perform a visual inspection of both the power unit and the attachment. Look for loose or missing hardware, damaged components, or signs of wear.
- 3. Inspect the hydraulic hoses and the hydraulic fittings to ensure tight, leak free connections.
- 4. Inspect the belts for damage or excessive wear. Refer to the Belt Inspection section of this manual.
- 5. Inspect the cultivator tines and the separator tines for damage. Replace any bent or damaged tines.

Attaching

- 1. Drive the power unit slowly forward into the hitch arms of the attachment. Align the lift arms of the power unit with the attachment hitch arms by raising or lowering the front hitch and complete the engagement.
- Once completely engaged, move the front hitch latch lever* to the locked position. The latch (A) must lock over the attachment's hitch arm pin (B).



- 3. Engage the parking brake* and shut off the engine.
- 4. Place the attachment belt onto the PTO drive pulley on the power unit. Ensure the belt is properly seated in each pulley.
- 5. Engage the PTO belt tensioner rod.
- 6. Wipe the hose ends clean and connect to the power unit's hydraulic quick couplers. If equipped, connect the hoses and the quick couplers so the colored indicators are paired together (red to red, etc.).

Detaching

- 1. Park the power unit on a level surface and engage the parking brake.*
- 2. Lower the attachment to the ground.
- 3. Shut off the power unit engine.
- 4. Disengage the PTO belt tensioner rod.
- 5. Remove the attachment belt from the PTO drive pulley of the power unit.
- 6. Disconnect the hydraulic quick couplers from the power unit and store the hose ends in the hitch frame holes on the attachment.
- 7. Disengage the front hitch locking lever.*
- 8. Restart the power unit and slowly back away from the attachment. A side to side movement of the steering wheel may aid in disengagement.

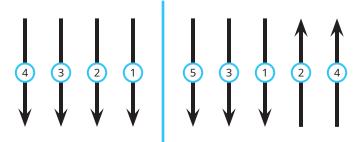
Operating Procedure

For best results when using the soil cultivator, the ground must be dry.

For best results on existing grass areas, mow the grass as short as possible and remove the grass clippings before working the ground with the soil cultivator.

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

The soil cultivator is designed to be used with the power unit travelling in reverse. The soil can be worked starting on the right side and moving to the left on each successive pass, or by starting in the middle and working alternate sides on successive passes as shown.



The left (drive) side of the soil cultivator should always be to the uncultivated side of the work area.

GENERAL OPERATION

Move the soil cultivator to the desired starting point. With the engine running between 2,000 and 2,500 RPM, engage the PTO switch and then adjust the throttle to the desired RPM. Slowly lower the cultivator into the ground and begin to back up slowly. Place the primary SDLA lever in the float position by pushing it to the right until the detent engages and use the secondary SDLA lever to raise or lower the roller to adjust the cultivator depth.

Check to make sure the distribution blade is set properly. The distribution blade levels and smooths the soil. There should be a small amount of soil coming off the right side of the distribution blade.

If there is no soil coming off the right side of the blade, it may not be carrying enough soil to properly level the surface. Move the distribution blade adjustment handle to a lower position.

If there is a large amount of soil coming off the right side of the distribution blade, the distribution blade is set too low. Move the distribution blade adjustment handle to a higher position.

When the pass is finished shut off the PTO, raise the soil cultivator out of the ground, and move the machine into position to begin the next pass.

Transport of the Attachment

Transport the attachment with the power unit front hitch and attachment fully 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. Always disengage the power unit PTO before transporting the attachment.

SERVICE

A 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

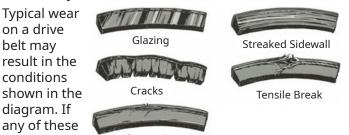
If any component requires replacement, use only original Ventrac replacement parts.

Cleaning and General Maintenance

For best results, and to maintain the finish of the soil cultivator, clean or wash the soil cultivator to remove dirt and debris. Clear all dirt and debris from the rotor and cultivator tines after each use.

Belt Inspection

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



conditions

Separation

occur, the drive belt will require replacement.

Attachment Drive Belt Replacement

- 1. Detach the soil cultivator from the power unit.
- Remove the attachment belt cover (A) from the soil cultivator.
- 3. Remove the old drive belt and install the new drive belt onto the drive pulley.
- 4. Reinstall the attachment belt cover. Torque the mounting bolts to 24 Nm (210 in-lbs).

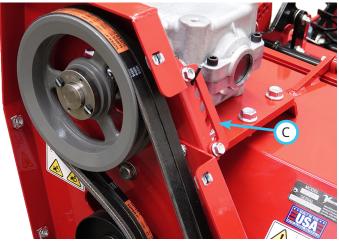


Gearbox Drive Belt Replacement

1. Remove the attachment belt cover (A) and the attachment belt from the soil cultivator.



- 2. Remove the gearbox belt cover (B) from the soil cultivator.
- 3. Remove the belt tension spring lock (C).



- 4. Disengage the belt tension spring and remove the old gearbox drive belts from the soil cultivator.
- 5. Install the new gearbox drive belts onto the gearbox and drive shaft pulleys. Replace both of the gearbox drive belts at the same time.
- Engage the belt tension spring and reinstall the belt tension spring lock. Torque the bolts to 24 Nm (210 in-lbs).
- 7. Reinstall the gearbox belt cover and torque the bolts to 24 Nm (210 in-lbs).
- 8. Install the attachment drive belt onto the pulley and reinstall the attachment belt cover. Torque the bolts to 24 Nm (210 in-lbs).

Chain Tension Inspection

- Detach the soil cultivator from the power unit and 1. place on a clean, level surface.
- 2. Place a stack of shop towels under the chain drive to catch any grease spills.
- 3. Remove the drive chain cover (A) and the gasket.



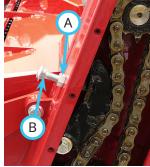
4. Measure the distance between the two chain strands halfway between the sprockets. Push in or pull out on the right chain strand and measure the distance. The difference in measurements is the amount of chain deflection. Proper chain deflection should be between 6 - 10 mm (1/4 - 3/8 inch).



- 5. If the chain tension needs adjusted, refer to the following section for adjustment procedures.
- 6. When inspecting the chain tension as part of the normal maintenance schedule, apply grease to the rotor bearing before reinstalling the drive chain cover.
- 7. Reinstall the gasket and drive chain cover and tighten all the bolts until they are snug. Torque each bolt until the gasket beneath it starts to deform.
- 8. If additional grease needs added to the chain drive, remove the plug on the top of the chain drive and add a multipurpose lithium NLGI 00 grease and reinstall the plug.

Chain Tension Adjustment

- Loosen the jam nut (A) 1. on the chain adjustment bolt (B).
- 2. Tighten or loosen the chain adjustment bolt until the proper chain tension is achieved.
- 3. Tighten the jam nut against the chain drive housing.
- 4. Clean the inside of the cover, both sides of the



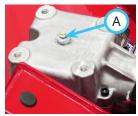
gasket, and the gasket mounting surface.

- Reinstall the gasket and drive chain cover and tight-5. en all the bolts until the gasket begins to compress. Do not overtighten and deform the cover plate or the cover may leak.
- 6. If additional grease needs added to the chain drive, remove the plug (C) on the top of the chain drive and add a multipurpose lithium NLGI 00 grease and reinstall the plug.



Checking the Gearbox Oil Level

- 1. Clean the top of the gearbox and remove the breather plug assembly (A).
- 2. Check the oil level in the gearbox. The oil level should be maintained at approximately half full. If the oil level is low, add 80-90 weight



synthetic gear oil until the proper level is reached.

Reinstall the breather plug assembly into the 3. gearbox.

Changing the Gearbox Oil

Due to the gearbox mounting configuration, the gearbox does not have a bottom drain port. The recommended procedure is to remove the gear oil using a fluid extractor or have this service procedure performed by an authorized dealer.

- 1. Clean the top of the gearbox and remove the breather plug from the top port.
- 2. Use a fluid extractor to remove the old gear oil from the gearbox.
- 3. Add 80-90 synthetic gear oil until the proper level is reached.
- 4. Reinstall the breather plug into the top port of the gearbox.

Lubrication Locations

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

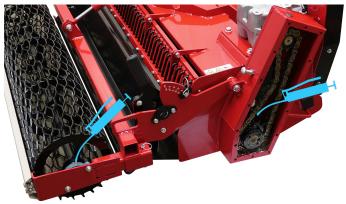
Wipe the grease fittings clean before applying grease to the grease fittings.

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

Right rotor bearing, right roller bearing, and the hydraulic cylinder ends



Left rotor bearing (inside chain housing) and left roller bearing



Storage

Preparing the Attachment for Storage

- 1. Clean the attachment to remove accumulated 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 cultivator tines and replace any tines that are damaged or worn.
- 4. Inspect the safety decals. Replace any decals that are faded, illegible, or missing.
- 5. Inspect the belts for signs of damage or wear and replace as needed.
- 6. Inspect the hydraulic hoses and fittings for damage or wear. Connections must be tight and leak free. Replace damaged or worn components.
- 7. Apply grease to all grease points and wipe off any excess grease.
- 8. Check the gearbox oil level.
- 9. Inspect the painted components for chips, scratches, or rust. Clean and touch up the surfaces as needed.

Removing the Attachment from Storage

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

SERVICE

Maintenance Schedule

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	ot 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
Rotor Shaft Bearing	2	1			\checkmark	✓	✓	1	\checkmark	✓	\checkmark	✓	 ✓ 	~	\checkmark	✓	✓	~	~	✓	✓	~	\checkmark	~	
Roller Bearing	2	1			✓	✓	✓	✓	~	✓	~	~	~	~	✓	✓	✓	~	~	~	✓	~	~	~	
Cylinder Ends	2	^			✓	✓	✓	√	~	✓	~	✓	✓	~	✓	✓	✓	~	~	✓	✓	✓	\checkmark	\checkmark	
Check the Gearbox Oil Level						~		~		~		~		~		~		~		~		~		\checkmark	
Change the Gearbox Oil					✓				~					~					~					~	
					In	spec	tion																		
Inspect for Loose, Missing, or Worn Components				~																					
Inspect the Hydraulic Hoses and Fittings				~											Î										
Inspect the Belts and Pulleys	Ì			~																					
Inspect the Drive Chain					~	~	~	√	~	~	~	~	~	✓	~	~	~	~	~	~	~	~	~	~	
Inspect the Cultivator Tines Torque to 81 Nm (60 ft-lbs)					~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	\checkmark	
Inspect the Safety Decals				~																					
^Grease until fresh grease is visible. **Operation in severe conditions may require more frequent service intervals.																									

Maintenance Checklist

	# of locations	# of pumps	As Needed	Daily	At 50 hours	At 100 hours	At 150 hours	At 200 hours	At 250 hours	At 300 hours	At 350 hours	At 400 hours	At 450 hours	At 500 hours	At 550 hours	At 600 hours	At 650 hours	At 700 hours	At 750 hours	At 800 hours	At 850 hours	At 900 hours	At 950 hours	At 1,000 hours	Yearly
Rotor Shaft Bearing	2	1																							
Roller Bearing	2	1																							
Cylinder Ends	2	^																							
Check the Gearbox Oil Level																						\square			
Change the Gearbox Oil																									
					Ins	spec	tion																		
Inspect for Loose, Missing, or Worn Components																						\square			
Inspect the Hydraulic Hoses and Fittings																						\square			
Inspect the Belts and Pulleys		ĺ																				\square			
Inspect the Drive Chain																									
Inspect the Cultivator Tines Torque to 81 Nm (60 ft-lbs)																									
Inspect the Safety Decals																									
^Grease until fresh grease is visible. **Operation in severe conditions may require more freq	uent	servi	ce in	terva	als.																				

SPECIFICATIONS

Dimensions

64.1 cm (25-1/4 inches)
. 132.7 cm (52-1/4 inches)
167 cm (66 inches)
132 cm (52 inches)
12.7 cm (5 inches)
285.8 kg (630 pounds)

Features

Cultivator tines for pulverizing the soil.

Separator tines for sifting and burying rocks and large debris.

Distribution blade for distributing soil evenly across the surface.

Perforated roller creates a pocketed surface for seed.

Hydraulic cylinder for controlling the depth adjustment from the operator position.

Sealed lubrication final chain drive.