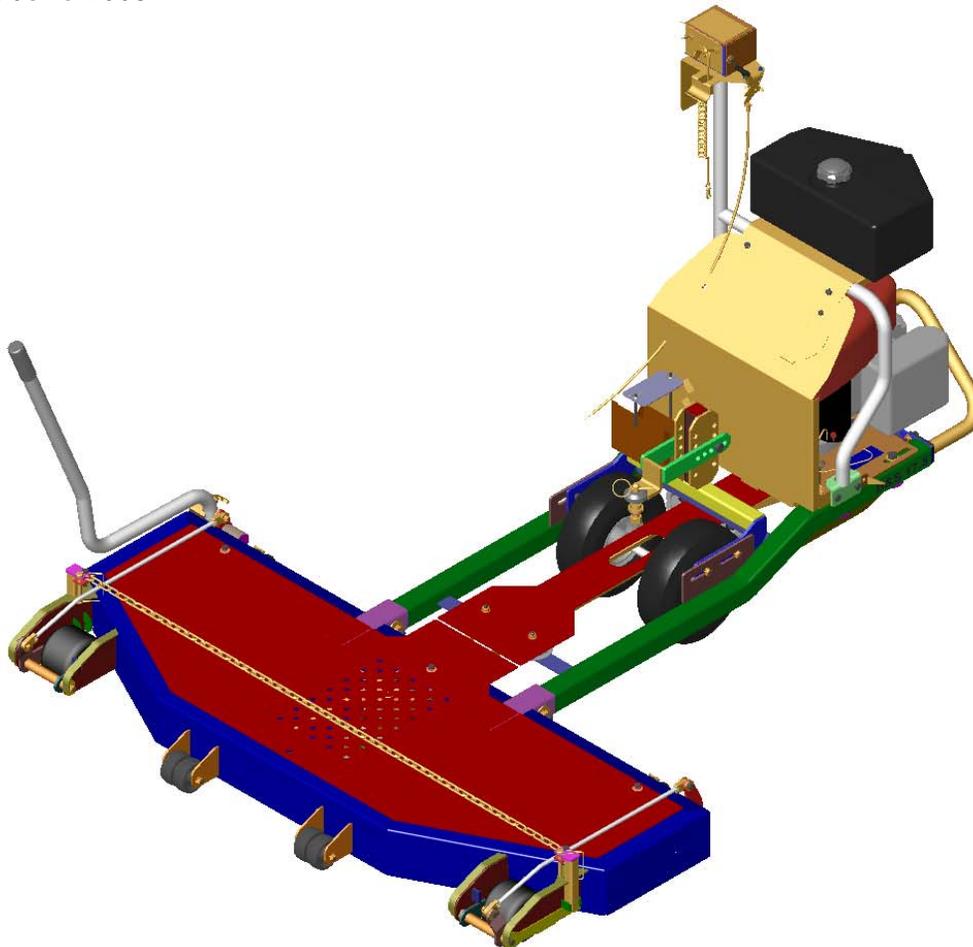


Assembly/Operators/Parts Manual

English Language Version 05

Printed: June 2005



RD62 - 5 Blade Mower,
Rear Discharge - 62"



READ & SAVE THIS MANUAL

QUADIVATOR INC.
1000 6th Ave. NE
Portage La Prairie, MB
Canada, R1N 3C5
www.quadivator.com

Part #: 86068A

FOREWORD

You are now the owner of a Quadivator HyperCut Mower.

To obtain the best use of your HyperCut Mower, read this manual carefully. It will help you become familiar with the operation and maintenance of the mower.

It is Quadivator's policy to use all research, design and manufacturing improvements to improve our mower. This may result in some of the minor parts in the manual becoming outdated.

Quadivator will have the most up to date information – call 866 770-2169 for information and parts orders or contact us on-line @ www.quadivator.com!

Mowing Deck Model # -

Mowing Deck Serial # -



SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine to warn of the possibility of personal injury.

Read these instructions carefully.

It is essential that you read the instructions and safety regulations before you attempt to assemble or operate this unit.



DANGER

Indicates an immanently hazardous situation, which if not avoided, will result in death or serious injury.



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.

IMPORTANT

Indicates that equipment or property damage could result if instructions are not followed.

NOTES

Gives helpful information.

HyperCut Mower Pre-Delivery Check List

Check off all items as they are found satisfactory or after adjustments are made:

- All safety shields and guard are securely in place!
- All decals are in place and readable!
- Tighten all hardware – see Checking Bolt Torque in Service Section.
- Check and tighten blade holder and blade bolts – see Tightening Blade and Blade Holder Hardware in Service Section.
- Check the belt is adjusted properly – see Service Section.



CAUTION

To help prevent personal injury from rotating blades or thrown objects, never walk or stand in line with the discharge during run-in or operation!

- Start the HyperCut Mower and allow it to run for 5 – 10 minutes, check for excessive operation or unusual noise.
- The HyperCut Mower has been tested and to the best of my knowledge, is ready to be delivered to the customer!

Date Pre-Delivered –

Signature –

OWNER Register

Name

Address

City

State/Prov

Mail Code

Model (s)

Serial (s)

Date Sold – D/M/Yr

DELIVERY Checklist

- Tell the customer not to remove any of the safety shields or guards.
- Review the HyperCut Warranty with customer.
- Safe Operation and Service.
- Daily and Periodic Lubrication and Maintenance
- Daily and Periodic Inspections.
- Parts & Service Availability.

Prior to delivery to the customer, do the following:

- Record Serial Numbers for the HyperCut Decks.
- Sign and remove this section for the dealer's record.
- Give the customer the Operator's Manual and encourage the customer to read the manual.

Date Delivered –

Signature –

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1. Safe Operation



DANGER

This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

1.1 GENERAL OPERATION

Read, understand, and follow all instructions on the machine and in the manual(s) before starting.

Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.

Only allow responsible adults, who are familiar with the instructions, to operate this machine.

Clear the area of objects such as rocks, wire, toys, etc., which could be thrown by the blade(s).

Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.

NEVER CARRY PASSENGERS while mowing - EVEN IF YOURS is a TWO-UP ATV!



DANGER

When operating the ATV Mounted Mower – ALWAYS attach the clip end of the Tether Chord to your belt, until you dismount from the ATV. The switch the chord is attached to will shut off the mower's engine if pulled deliberately or by inadvertent dismount from the ATV

Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing up.

Never direct discharge material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.

Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.

Do not wear loose clothing.

Slow down before turning.

Never leave a running machine unattended. Always turn off blade(s), set parking brake, stop engine and remove key before dismounting.

Disengage blade(s) when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.

Operate machine only in daylight or good artificial light.

Do not operate machine while under the influence of alcohol or drugs.

Watch for traffic when operating near or crossing roadways.

Use extra care when loading or unloading the machine into a trailer or truck.

Always wear eye protection when operating machine.



WARNING

Data indicates operators age 60 years and above are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

1.2 SLOPE OPERATION

Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death.

Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

Mow up and down slopes, not across.

Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.

Choose a low ground speed so you will not have to stop or shift while on a slope.

Do not mow on wet grass. Tires may lose traction.

Always keep the machine in gear when going down slopes. Do not shift to neutral and coast downhill.

Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blade(s) and proceed slowly straight down the slope.

Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.

Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do not use on steep slopes.

Do not try to stabilize the machine by putting your foot on the ground.

Do not mow near drop-offs, ditches or embankments. The machine could suddenly roll over if a wheel goes over the edge or if the edge caves in.

1.3 CHILDREN



WARNING

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

Keep children out of the mowing area and in the watchful care of the responsible adult other than the operator.

Be alert and turn machine off if a child enters the area.

Before and while backing, look behind and down for small children.

Never carry children, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.

Never allow children to operate the machine!

Use extreme care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

1.4 TOWING

Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.

Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.

Never allow children or others in or on towed equipment.

On slopes, the weight of the towed equipment may cause loss of traction and loss of control.

Travel slowly and allow extra distance to stop.

1.5 GENERAL SERVICE

Keep all nuts and bolts tight to be sure the equipment is in safe working condition.

Never tamper with safety devices. Check their proper operation regularly. Keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.

If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.

Never make any adjustments or repairs with the engine running.

Check grass catcher components and discharge guard frequently and replace with manufacturer's recommended parts, when necessary.

Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.

Check brake operation frequently. Adjust and service as required.

Maintain or replace safety and instruction labels, as necessary.

2. INTRODUCTION

2.1 SPECIFICATIONS

HyperCut Mower Model		RD62
Adjustment Method		RHSide Height Adjustment Lever & Fixed Scalping Wheels
Mounting Method		2 point bolted assembly
Cutting Width	inch (mm)	62 (1575)
Cutting Height	inch (mm)	1.0 to 3.75 (25 to 95)
Weight Approx	lbs (kg)	455 (206.5)
Blade Length	inch (mm)	13.0 (330)
Blade Tip Velocity	fpm (m/s)	17000 (86.5)
Number of Blades		5
Deck Length	inch (mm)	26.25 (667)
Deck Width	inch (mm)	62 (1575)
Deck Height	inch (mm)	5.0 (127)
Mower Overall Length	inch (mm)	81.25 (2063)
Overall Height (Controls)	inch (mm)	41.0 (1040)
Length - Hitch Ball to Rear of the Mower	inch (mm)	35 +/- 1.5 (890 +/- 38)

3. SETUP

3.1 Mower Deck Assembly

Step 1. Remove the components from the shipping container:

1. The assembled deck.
2. The packaged height adjustment handle.
3. The tower assembly kits, packaged with the height adjustment handle.

Step 2. Note the Serial Number of the Deck - it is located as shown in the attached pictures!

Step 4. Prop the back of the deck up slightly – 2” – and remove the two bolts holding the rear height adjust links going over the deck – see picture.

Step 4. Remove the deck drive shield so the drive pulleys are visible.

Step 5. Rotate the rockshaft backward 90° and install the height control handle using the hardware provided and in the manner shown in the picture! Remove the tywrap holding the spring with a pair of side cutters, then pull inwards to compress the spring and rotate the rod upwards and into place so the height control lever contacts the height detent bracket.



Remove this hardware in order to install the height control lever bolt.

Height control lever retaining bolt.



NOTE – Shown is the bracket on the LH side of the deck which controls the position that the horizontal height control rod is fixed at from right to left on the mower deck. It can be adjusted to position the height control handle closer or farther from the operator once the mower is installed on the ATV. It may need to be adjusted to assist in mounting the height control lever!

Step 6. Reconnect the two bolts holding the rear of the height control links into place.

Step 7 – Install the chain restrain towers – flatten them by hinging them down, with the chains and instruction labels attached. Lock the towers in place by spreading the center of the cotter pin to retain the towers to the mower deck!

Step 8. Visually check that all of the safety decals are in place and readable. The deck is now ready to be joined to the power unit.

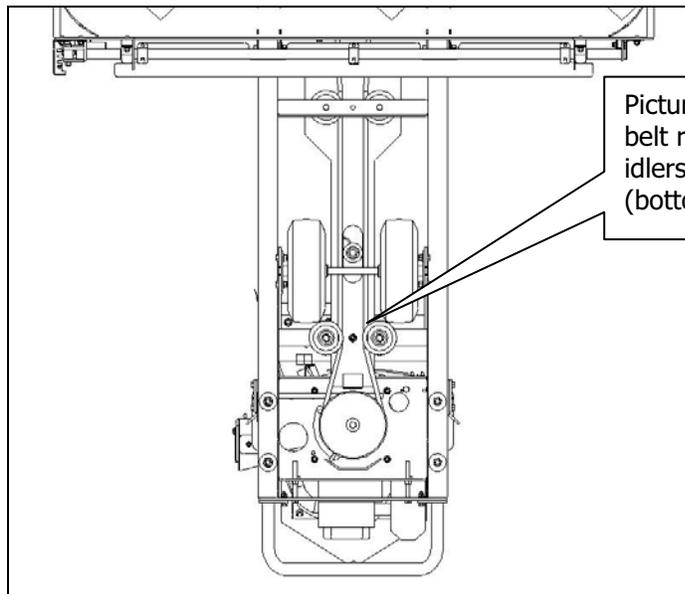
3.2 Mounting Mower to Power Unit

Step 1. Insert the tubes of the Power Unit into the matching brackets on the mower deck as shown. You may need to manoeuvre the Power Unit into place by grasping the rear nerf bar and wheeling it into position

Step 2. Secure the Mower Deck to the Power Unit with the provided locking hardware!

Step 3. Install the drive belt – which comes with the Power Unit - that goes from the drive pulley on the Power Unit under the Motor to the driven pulley on the mower deck. In order to accomplish this, follow these steps:

1. Remove the Deck drive shield
2. Loosen the 4 bolt and nut assemblies that hold the motor in place.
3. Loosen the 2 adjuster bolts at the rear of the engine plate.
4. Slide the engine completely forward to the mower deck.
5. Loop the drive belt around the driven pulley on the deck and thread it through the two sets of idlers and place it onto the drive pulley beneath the engine. Ensure that the belt is running in position and is not twisted, before tensioning.



Picture illustrates the correct belt routing between the idlers on the power unit. (bottom view shown)

6. Manually slide the engine plate rearward to put some tension on the belt and then tighten it with the two tensioning bolts at the rear of the power unit frame.

7. The belt tension should be tight enough that by reaching beneath the mower in the center section of the power unit, that it takes 7.5 lbs of pressure to deflect the belt 1/2 when grasped just below the opening in the covering plate.



Vertical bolts (with wrench in place) are to lock the engine plate in place and the bolts at the rear are to provide tension.

IMPORTANT

DO NOT over-tighten the belt – over-tightening the belt will cause excessive heat build up in the belt and premature belt wear!

Step 4. Re-Install the deck drive shield.

Step 5. It is possible to start the mower at this time, before it is mounted to any ATV. If you choose to do so, follow these steps:

- Ensure that there is nothing under the cutting deck that has been inadvertently left on the ground that would contact the blades – push the mower forward and rear to visually check!
- Block the pneumatic wheels both forward and rearward so the mower does not move.
- Ensure there are no personnel within 4 ft of the deck and there is no one in line of the discharge at any time.
- Turn the fuel valve – located at the bottom of the tank – to the ON or vertical position – visually check for fuel flow through the filter body.
- On initial start up, allow the engine to run for 3 – 5 minutes before engaging the mower deck – the choke should be **“removed”** right after start up by pulling the throttle lever towards the operator or the mower deck until the engine runs at maximum RPM without choke.
- Engage the mower deck by moving the toggle to ENGAGE or UP position.
- **Initial start up of a new deck may take several (3 – 5) attempts to get the mower deck up to full speed – because of 5 spindle assemblies and a new belt.**
- Once up to speed – allow the mower to run for 5 – 10 minutes – this is a “break-in” period. This break in period will ensure that the customer’s first experience with the HyperCut Mower engages the deck directly from first operation!
- Disengage the drive to the mower deck, by moving the toggle to RUN or the center position (the mower deck – rotating blades - should disengage immediately) – idle the engine and shut off with the ignition key.
- Re-start the mower following the previous procedure – place the toggle in RUN Position) and pull the red Safety Tether from the switch – the engine should SHUT OFF in within 2 seconds. If it does not - consult the Troubleshooting section of the Power Unit Manual before proceeding with mounting the Mower to an ATV.
- Turn OFF the Ignition Switch; Re-install the safety tether on its switch, shut off the fuel valve!

3.3 Mounting the Mower ATV

NOTE - General Principles for mounting the HyperCut Mower to the ATV!

1. The mower is to be centered from the front to the rear, allowing for turning of the assembled unit and the actuating the mower height control lever!
2. The floating hitch at the rear is horizontal when installed and attached to the ATV!
3. The mower is centered from left to right under the ATV using the chains supplied to loop around a frame member on the ATV
4. The excess chain is removed but cutting it off as instructed on the orange tags, which come attached to the end of the chain!
5. The ATV/Mower Unit is maneuvered left to right and with the deck up and down for minimal left to right movement – less than 1.0”

This initial fit up – HyperCut Mower to ATV - should take place on a flat hard surface that has enough room to mount the mower to the ATV, and then manoeuvre the assembled unit!

Step 1 - Install the supplied Pin – Part # 88652 in the ATV as shown – place the pin through the top and the large washer on the top of the ATV hitch. Assemble the lock washer from the bottom and tighten the nut with a wrench or socket.



NOTE – tighten the hitch pin securely – to 150 ft-lbs (230.5 Nm). The HyperCut is “pushed” by the ATV through the hitch pin, this must be secure as instructed - failure to do so will result in damage to the ATV or the mower and/or both – or personal injury to the operator.

INFORMATION – the HyperCut Mower has a universal mount system that accommodates a 7.5” or taller ground to hitch height. If your mower has a hitch height that is between 7.0” to 7.5” (measured from the ground on hard surface - to the top of the ATV hitch) it is still possible to mount the mower to your ATV, but it will require some additional care in mounting and dismounting the ATV from the mower.

Step 2 - Block the pneumatic wheels of the mower with two wooden 2” x 4”s.



Mower Height Control Lever

NOTE – ALWAYS Block the Wheels on your HyperCut Mower when attaching or detaching the mower from your ATV!

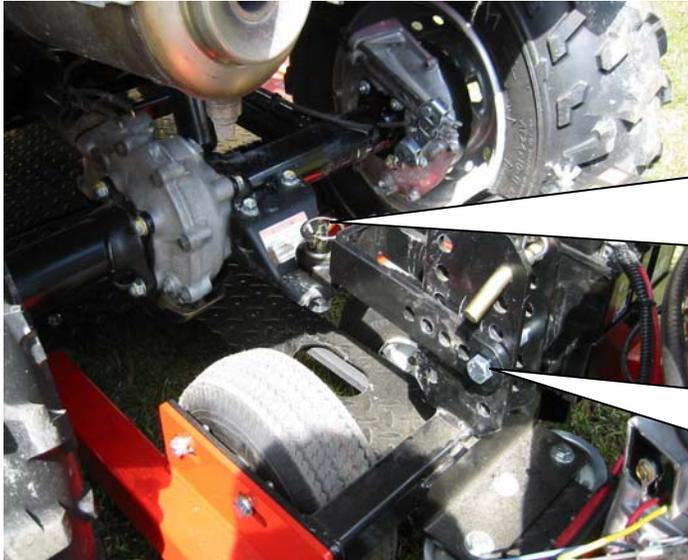
Step 3 - Pull inwards and push to the full forward position on the mower’s height control lever to make the deck as low to the ground as possible to make it easier to reverse the ATV over the mower deck.

Step 4 – Back the ATV up over the mower deck in **REVERSE - SLOWLY!**

IMPORTANT - Hold your hand over the brake lever to assist in making quick unanticipated stops when driving over the mower deck.

Step 5 - When the ATV contacts the ground with all 4 wheels, and the mower between the ATV wheels – shut off the ATV and place it in neutral for manual maneuvering.

Step 6 – Remove the floating hitch (by removing the bolt/pivot – with the swivel and number of holes) – from the hitch tower and attach it to the vertical hitch pin that was installed on the ATV hitch pin, place the over center pin supplied to hold the hitch swivel bracket to the ATV hitch.



NEVER operate or even move your ATV with mower attached without the horizontal safety pin in place – failure to have installed will allow the mower to become disconnected from the ATV and damage to the ATV or Mower and/or the operator may result.

NOTE – remove this bolt, then slide the hitch onto the pin mounted on the ATV – then reinstall the bolt to make the front to back adjustment!

Step 7 – Center the mower (front to rear) in the space between the ATV wheels. Manoeuvre the mower by grasping the rear curved nerf bar and push and pull it until the mower is centered between the front and rear wheels of the ATV. Install the floating hitch bolt in position that allows for a horizontal positioning of the hitch.



Check for clearance at the front wheels at upper and lower height extremes of steering movement!

Check for clearance at the rear wheels at upper and lower height extremes of steering movement!



NOTE – the hitch with the swivel can be installed in either the “L – UP” or “L-Down” positions as shown. What is important is that the floating hitch member is in the horizontal position when installed on your ATV!

NOTE – Always place this bolt in the rear set of holes (on the tower) when installed.

NOTE – if finer adjustment is required for front to rear movement, after the closest hitch bolt hole has been selected, the entire hitch tower assembly can be adjusted with by loosening the 4 bolts that hold the hitch assembly to the Power unit frame – adjusting the deck front to back then re-tightening the hardware.

NOTE – if your ATV has independent suspension and the hitch height changes with an operator on-board, then have a person sitting on the ATV when you “level” the L-hitch assembly to your ATV.

Replace the bolt in the hitch tower and ensure that the locking section of the nut is engaged when installed, with a minimum of 2 or 3 threads exposed!

Check the centering of the mower to the ATV from front to rear by turning the steering bars of the ATV from full left to full right and with the mower deck in both the **Full – UP** and **Full – Down** mowing positions with the deck height lever. In all instances the deck height mechanism should clear both tires evenly and in no circumstance contact the ATV tires. Readjust if necessary before proceeding!

Step 8 – Centering the mower from side to side beneath the ATV can be accomplished by placing the handle bars so the ATV front wheels point straight ahead, and measuring how much of the deck is visible on either side of a straight line drawn from the rear wheel rims forward.

Step 9 – Attach the mower to the ATV with the chains and chain towers provided! Once the brackets are in the deck, insert the provided cotter pin and when installed – “separate” the center part of the pin with a screw driver, hammer it lightly into place and then rotate the screwdriver 90 degrees to ensure the cotter pin can not be withdrawn.

With the deck centered as you did in Step 9 – take the 4” chain attached to each “tower” and find a location on the frame that will allow you to securely loop the chain around and then bring it back to the tower, attach it with the provided quick release D-Pin to the other side of the tower!

Repeat on the opposite side – note the location points you anchor the chain to should be on a direct line from one tower to the other or as direct as possible!

Move the deck from side to side manually and by pushing forward, reverse and up/down on the nerf bar at the rear of the mower – tighten the chain one link on either side if required!

Looping the chain around your frame should be done in a secure place to the frame of the ATV, there should be a connection point that is a minimum of 12" inward from the "tower" and as much as possible, the connection point - should be in-line with the tower on the other side. Use the provided D-Pins to lock the chain in place to the tower, the other side of the tower is bolted to the chain!

NOTE - When installed - the tether chains are secure, but they will remove **some** paint from your ATV at the attaching point when the deck operates and moves underneath you ATV as you are mowing. **If this minor paint removal is not satisfactory because of its visibility - then find a non-visible and SECURE location in another location on the ATV!**

Step 10 – Trim the excess and unneeded chain from both sides of the chain towers!

IMPORTANT – DO NOT OPERATE MOWER until all excess chain is trimmed from the connection to the mower towers to the ATV – cut the chain to the minimum length required to operate the mower. Failure to trim/cut chain to minimum length may cause damage to rotating drives, cutting blades, the operator and/or bystanders.

Step 11 – Operate the ATV/Mower Unit around in the area at speeds not over 5 mph (or 8 kph) to ensure that the connections are secure and nothing has moved or shifted in the attaching points. Operate the unit **SLOWLY** - in reverse - turn right and left and then recheck for movement from right to left when operating forward at 5 mph.

3.4 Removing and Re-attaching the Mower

When disconnecting the HyperCut Mower from your ATV, take the following Steps:



WARNING

NEVER disconnect the ATV from the HyperCut Mower with the mower engine running – ALWAYS shut the mower engine off before disconnecting from the ATV.

Step 1 - Stop the ATV where you want to leave the mower and **SHUT OFF** the ATV and place in PARK and apply the handbrake.

Step 2 - Disconnect the chains from both sides of the ATV - which connect the mower deck to the ATV by removing the D-pins, and lay the towers down flat, with the chain away from the deck.

Step 3 - BLOCK the rear pneumatic wheels of the mower – both forward and rear sides of the pneumatic wheels!

Step 4 - Remove the retaining pin from the rear hitch and lift the swivel hitch from the hitch pin on the ATV up and rearwards – in a resting position.

Step 5 - Grasp the mower by the nerf bar and ensure it is completely free from the ATV.

Step 6 – Re-start your ATV and - with the brake "covered" - proceed forward **SLOWLY and WITH CAUTION - driving over the deck and clearing the mower entirely and leaving it in place until next "mowing" time.**

Step 7 – In order to attach the ATV to the HyperCut Mower, reverse Steps 6 – 1.

4. Operating Section

The Quadivator HyperCut Mower mounted to an ATV is designed to produce a quality finish on lawns, golf courses, etc. It is NOT designed to clear brush or to cut saplings.



WARNING

Your HyperCut mower should be attached to an ATV in the manner described in this manual and should not be used for speeds exceeding 5 MPH (miles per hour) or 8 KPH (kilometers per hour).



WARNING

The operation of any mower can produce foreign objects to be thrown in the eyes, resulting in severe eye damage. Always wear certified safety glasses or wide vision safety goggles over spectacles before starting any cutting machine and while operating such a machine.



CAUTION

The operation of any cutter produces sound waves that are damaging to the human ear – ear protection is recommended!

4.1 Making the best of your HyperCut Mower

When using your HyperCut Mower for the first time, choose a smooth level area and cut in a straight line with slightly overlapping strips.

The size and type of the area to be mowed will determine the proper mowing pattern. Take into account obstructions such as trees, fences and buildings.

To mow the remaining area - work in a counter clockwise direction, so the cuttings are spread onto the previously cut area.

Most lawns should be mowed to keep the grass 2.5 to 3.0 inches (62 to 80 mm) high. Best results are obtained by cutting often and not too short. To keep a lawn green, never mow more than one third of the height of the grass or a maximum of 1 inch (25 mm) in one mowing.

For extremely tall grass, set the cutting height at or near the maximum height for the first mowing or cutting pass, then lower the cutting deck to the finish height and mow again – 90° from the first cut if possible. Allow the grass to grow to 3 inches and cut off only the top inch.

For best appearance, grass should be cut in afternoon or evening when it is free of moisture.

4.2 Cutting Height



WARNING

To avoid personal injury NEVER operate the mower in transport position!

Check the pneumatic wheels on the HyperCut mower daily. They should have 45psi.

Cutting height can be adjusted from 1 – 3.75 inches (25 to 95 mm) to set the cutting height, operate the RHS Height Control Lever.

On thick springy grass or soft ground, the mower's rollers may sink into the ground giving too low a cut – adjust the cutting height deck with the Height Control Lever to compensate for the soft ground conditions.

Use the higher or taller settings for mowing in a rough area or when mowing high grass. Lower settings should be used only for smooth lawns where short grass is desired.

4.3 Operating Mower



DANGER

To avoid serious injury or death, DO NOT Operate the mower without discharge deflector properly bolted in place.

Keep the HyperCut Mower engine running at full throttle for best mowing results.

Control forward travel speed by ATV forward speed – DO NOT mow at more than 5 MPH or 8 KPH.

During heavy duty use, operate the machine at a slower speed or go over the area twice.

The mower will not cut cleanly if the ground speed is too high or if the blade speed drops due to an overload.

IMPORTANT – To prevent the engine from overheating, keep the air inlet screen on the top of the motor clean at all times!

5. Maintenance

5.1 Service Intervals

Item #	Check Point	Use Hour Interval (change or check every interval)		
		Check Daily	50 Hours or Weekly	Annually
1	Check Mower Blade Wear	X		
2	Ensure Blade Cap Screws are Tight	X		
3	Check all Hardware are Tight	X		
4	Clean Mower Deck	X		
5	Check Drive Belt Tension	X		
6	Check Engine Oil Level	X		
7	Check Security of Hitch Pin - located on ATV Hitch	X		

8	Ensure Hitch Security Pin is in place - through the ATV hitch pin	X		
9	Ensure the Deck Restraining Chains are secure – BOTH ENDS	X		
10	Ensure that Hitch Assembly on the Mower is secure and moves freely	X		
11	Remove any Debris build up on Engine Cooling Air Intake.	X		
11	Shut Fuel OFF after usage session is over – NOTE – fuel valve located beneath the fuel tank.	X		
12	Check Deck Drive Belt Tension – Engine to the Mower Deck		X	
13	Do general Engine Check - including the air filter check		X	
14	See the Engine Manufacturers recommendations for servicing.		X	X
15	Replace Mower Blades			X
16	Check Deck & Drive Belts for Physical Wear			X

5.2 Blade Replacement



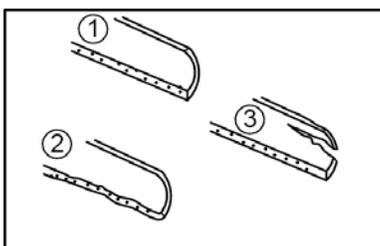
CAUTION

To avoid personal injury **ALWAYS** handle the blade with care to avoid injury!

IMPORTANT

The blade retaining bolts have **Right Hand Threads** – turn the bolts **counterclockwise** to loosen!

The blades should be kept sharp at all times. Sharpen the cutting edges if they appear like blade labeled – 2. Any blade that resembles – 3 – should be replaced immediately.



Check the blades on the HyperCut Mower by lifting the deck, blocking it on one side and then examining the blades; if they need to be sharpened or changed remove the HyperCut Mower from the ATV.

IMPORTANT

Replace mower blades that have been **damaged or deeply nicked**.

To remove the blade(s) from the mower, lift one side of the mower up in the air and block it securely. Wedge a block of wood between the blade and the mower deck housing of that blade to prevent the spindle from rotating while the blade retaining bolt is removed. Loosen the blade by turning the blade retaining bolt counterclockwise.



CAUTION

To avoid personal injury, wear heavy gloves when removing blades. BLADES MAY BE SHARP!

Make sure that the washer is not flattened or worn – use all of the hardware to re-assemble the blade retainer that you removed from the blade from the mower!

To sharpen the blades – hold the blade securely in a vise – and use a large file along the original blade bevel until it is sharp. The blade should be checked for balance by using a secure horizontal rod. Slide the blade into the horizontal rod – if it rotates, file some material from the side that goes down (the heavy side).

IMPORTANT – tighten the blade bolt retaining bolt to 85 – 90 ftlbs or (115 – 122 Nm) when re-attaching!

5.3 Belt Replacement

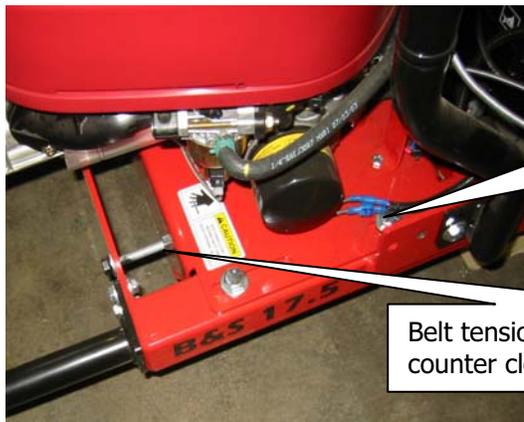
IMPORTANT – there are two belts on the HyperCut Mower, the Deck Belt that operates the spindle drives on the deck and the deck drive belt that drives from the clutch beneath the engine to the deck drive pulley!

In order to change the belts – remove the mower from the ATV.

Replacement of the Deck Drive Belt – front to the rear of the mower.

Remove the deck drive shield on the mower deck.

Loosen the four engine plate retaining bolts and loosen the belt tension bolts at the rear of the Power Unit.



Loosen the four engine plate retaining bolts and loosen the belt tension bolts at the rear of the Power Unit.

Belt tension bolts – clockwise for belt tension – counter clock-wise for loosening.

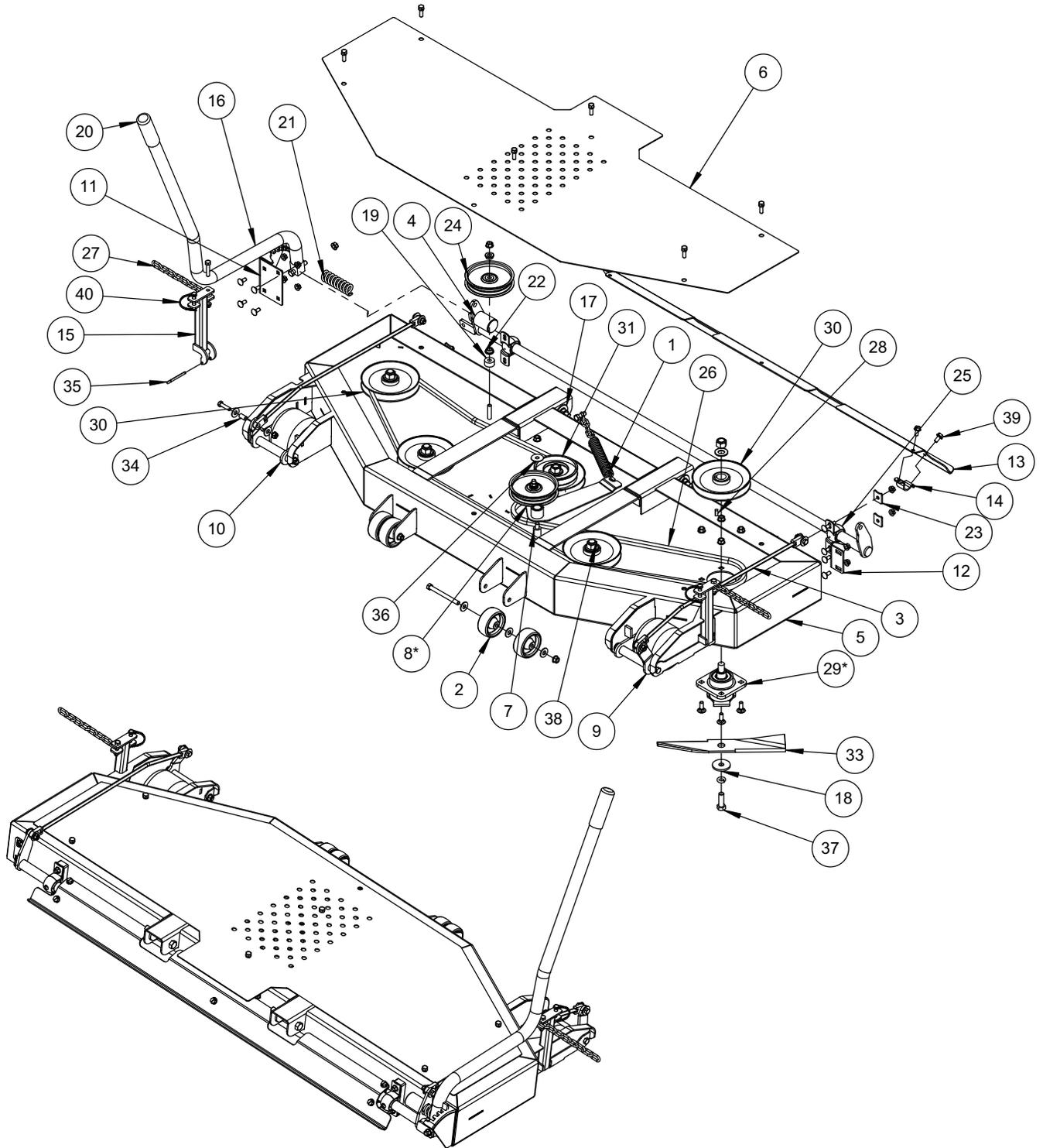
Slide the engine plate forward to release belt tension and remove the belt. It can either be removed from the pulley at the rear (under the engine) or can be removed from the front (the driven pulley).

6. Troubleshooting Section

Problem	Cause	Remedy
Discharge chute plugged	Grass too wet. Grass too long. Cutting too low. Engine RPM too low. Ground speed too fast.	Wait for grass to dry. Raise cutting height and cut grass twice. Raise cutting height. Mow at full throttle. Slow down.
Streaking of uncut grass	Ground speed too fast. Engine RPM too low. Grass too long. Blades dull or damaged. Debris in the mower deck.	Slow down. Mow at full throttle, check and reset engine RPM. Cut grass twice. Replace blades or have the blades sharpened. Clean mower deck.
Uneven cut	Ground speed too fast. Blades dull. Blades worn. Low tire pressure.	Slow down. Have the blades sharpened. Replace blades. Add air to correct.
Blades scalping grass	Cutting height too low. Turning speed too fast. Ridges in terrain. Bent blade(s).	Raise cutting height. Reduce speed on turns. Change mowing pattern. Replace blade(s).
Belt Slipping	Mower deck plugged. Debris in pulleys. Worn Belt.	Unplug and clean mower deck. Clean Pulleys Replace Belt
Excessive vibration	Debris in mower decks or in pulleys. Damaged drive belt. Damaged pulleys. Blades out of balance.	Clean mower deck and pulleys. Replace drive belt. Replace pulleys. Have the blades balanced.
Mower loads down machine.	Engine RPM too low. Ground speed too fast. Debris wrapped around the mower spindles.	Mow at full throttle, check and reset engine RPM. Slow down. Clean mower.
Mower does not START	Fuel valve left in OFF position. Kill Switch cover is not completely installed Battery level is low or poor!	Turn gasoline valve ON. Remove the switch cover and lanyard and re-install on the switch. Re-charge or replace the battery.

Model RD62 - Main Mower Assembly

"62 5 Blade, Main Mower Assembly (87700):



RD62 Main Assembly - Parts List

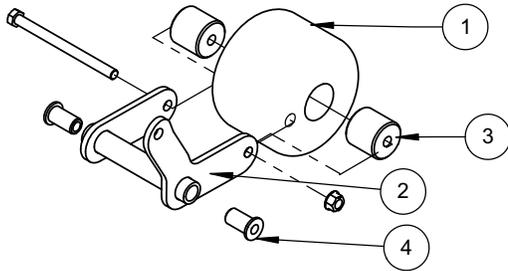
62" Mower Assembly Parts List (87700):

ITEM	PART	DESCRIPTION	87700-05 /QTY.
1	16603	Spring-Extension-Transport Lock	1
2	86188	Wheel 3.00OD x 1.25 - 0.375" Plain Bore	4
3	87430	W.A. - Tie Rod	2
4	87440	W.A. - Height Adj. Bar	1
5	87610-05	Weldment - Cutting Deck, RD62-05	1
6	87614	Shield - Deck	1
7	87642	Shaft - Pivot	1
8*	87650	Assembly - Tensioner Arm, 4.5" Idler	1
9	87800	Assembly - Front Wheel, LH	1
10	87900	Assembly - Front Wheel, RH	1
11	88080	W.A. - Height Adj. Bracket	1
12	88089	Angle - Stop	1
13	88137	Shield -Discharge	1
14	88138	Clamp -Discharge Deflector	3
15	88350	W.A. - Cable Bracket	2
16	88365	W.A. - Handle, Height Adj.	1
17	88403	Washer - Retainer	2
18	88404	Washer - 13 x 46mm	5
19	88406	Spacer - Idler Pulley	1
20	88536	Handle Grip	1
21	88537	Spring, Compression	1
22	88540	Spacer - Bushing	2
23	88561	Washer,Sq - Brg Support	4
24	88576	Idler Pulley - 4.5"	1
25	88580	Pobco Ultra D TriMnt Pillow BLock	2
26	88645	Belt, Deck RD62 - Carlisle # 7-8228	1
27	88650	Chain, 4 Links (4.25") of 3/16	2
28	88662	Key, Square - 1/4 x1/4 x 5/8	5
29*	88715	Assembly - Hub & Spindle	5
30	88720	W.A. - Pulley, 6" Pressed Steel	4
31	88721	W.A. - Double Pulley, 4.425"	1
32	88736	Chain, 4 Links (4.25") of 3/16	1
33	88751	Blade- Std - 13.25"	5
34	BS.313X.75	Buttite Spacer, 5/16 ID x 13/32	4
35	CTP.188x2	Cotter Pin 3/16 x 2	2
36	FNW.375x1.25	Flt Fndr Wshr 3/8"IDx1.25"ODx.06Thick	1
37	HB.5Fx1.5NPG8	Bolt, Hex 1/2F-20 x 1.5 Gr 8	5
38	TLN.625F	Nut, Top Lock -5/8-18 NF Zinc Pl	5
39	HWTCS.313x.625	Screw, Machine Hx Washer Head 5/16 x 5/8	6
40	LP.313x1.375	Lock Pin 5/16 x 1-3/8" Zinc Pltd	2

* For all Assemblies please see sub-assembly page

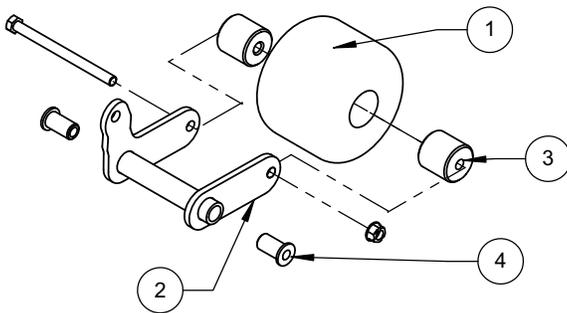
Mower Sub-assemblies

87800 - Assembly - Front Wheel, LH:



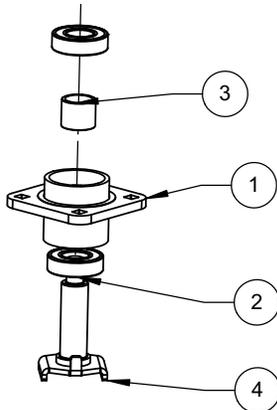
ITEM	PART	DESCRIPTION	QTY.
1	88178	Front Wheel	1
2	88190	Front Wheel Frame, LH	1
3	88383	Bushing - Wheels	2
4	88578	Bushing - Pivot	2
5	HB.375x5	Hex Head Bolt 3/8-16 X 5	1
6	FHN.375	Flange Lock Nut-3/8 NC Unitorque	1

87900 - Assembly - Front Wheel, RH:



ITEM	PART	DESCRIPTION	QTY.
1	88178	Front Wheel	1
2	88180	Front Wheel Frame, RH	1
3	88383	Bushing - Wheels	2
4	88578	Bushing - Pivot	2
5	HB.375x5	Hex Head Bolt 3/8-16 X 5	1
6	FHN.375	Flange Lock Nut-3/8 NC Unitorque	1

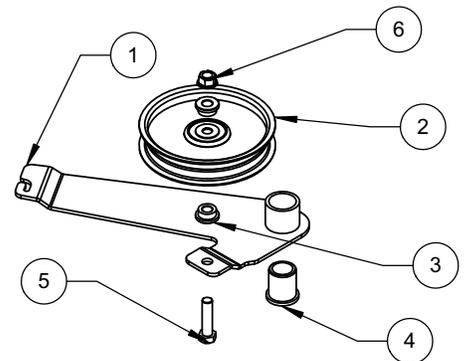
88715 - Assembly - Hub & Spindle (62"):



ITEM	PART	DESCRIPTION	QTY.
1	88420	W.A. - Bearing Hub	1
2	88559	Bearing - 6205-2RS ID-25, OD-52 & W-15	2
3	88568	Tube - Spacer, (NA)	1
4	88714	W.A. - Blade Spinner	1

87650 - Assembly - Tensioner Arm (62"):

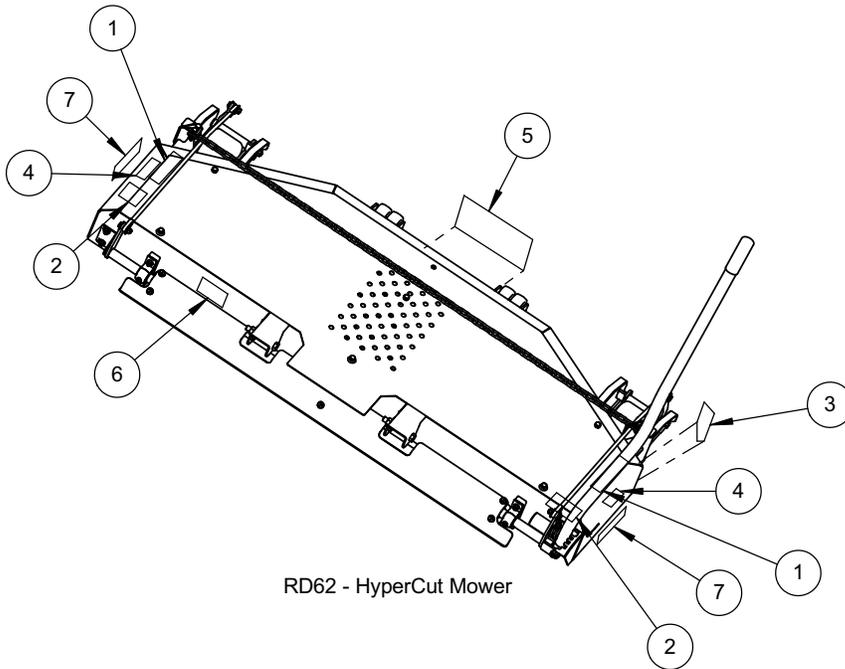
ITEM	PART	DESCRIPTION	QTY.
1	87640	WA - Arm, Tensioner - RD62	1
2	88576	Idler Pulley - 4.5"	1
3	88540	Spacer - Bushing	2
4	88579	UNMW - Flange Bearing	1
5	HB.375x1.5	Hex Head Bolt 3/8-16 X 1 1/2	1
6	FHN.375	Flange Lock Nut-3/8 NC Unitorque	1



Decals - Parts List & Location

The following is the list of part numbers associated with each decal:

ITEM	PART	DESCRIPTION	RD62/QTY
1	88602	Decal, Danger - Spinning Blades	2
2	88599	Decal, Caution - Keep Hands Clear	2
3	88590	Decal, Danger - Keep Hands and Feet Away	2
4	88593	Decal, Caution - Unstable Surface	2
5	88612	Decal, Model - Hyper-Cut RD62	1
6	88666	Decal, Serial Plate	1
7	(inquire)	(Corporate Decal)	2



8. How to order Repair Parts

The Parts Manual contains the replacement part numbers of all components of the Quadivator HyperCut Mower.

To obtain replacement parts, please contact your Quadivator Dealer for Service. To locate the nearest dealer, please contact a Quadivator Representative using the contact information below.

When ordering parts – please have the following information on hand:

- Part Number you are looking for.
- Model and Serial Number of the machine.
- Quantity Required.

To ensure warranty support for your HyperCut Mower, please fill out the Warranty Registration card included at the end of this Operator's manual.

9. Contact Information

Quadivator Inc.	E-mail:	mailbox@quadivator.com
1000 – 6 th Ave NE	Website:	www.quadivator.com
Portage la Prairie, MB	Tel.	866 770-2169
Canada, R1N 3C5	Fax.	204 239-4271

10. Warranty Statement

The warranty for the Quadivator Product is a limited warranty.

The manufacturer's warranty to the original customer is – the product is free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original purchaser.

We will repair or replace, at our discretion, parts found to be defective due to materials and workmanship.

The warranty is subject to the following limitations and exclusions:

1. Engine Warranty – all engines utilized on our products have a separate warranty extended to them by the engine manufacturer. Any engine service difficulty is the responsibility of the engine manufacturer and in no way is Quadivator Inc. or its agents responsible for the engine warranty. The Briggs & Stratton Engine Service Hot Line is 1-800-233-3723.

2. Commercial Use – the warranty period for any product used for commercial or rental use is limited to ninety (90) days from the date of original purchase.

3. Limitations – the warranty applies only to products which have been properly assembled, adjusted and operated in accordance with the instructions contained within this manual. The warranty does not apply to any product of Quadivator Inc. that has been subject to alteration, misuse, abuse, improper assembly or installation, shipping damage or normal wear of the product.

4. Exclusions – excluded from this warranty are normal wear, normal adjustments and normal maintenance.

In the event you have a claim under this warranty, you must return the product to an authorized service dealer. All transportation charges, damage or loss incurred during transportation of parts submitted for replacement or repair under this warranty shall be borne by the purchaser. Should you have any questions concerning this warranty, please contact us toll-free at 866 770-2169 or on our web-site at www.quadivator.com. The model, serial numbers, date of purchase and the name of the authorized Quadivator dealer from whom you purchased the Quadivator Product will be needed before any warranty claim can be processed.

This warranty does not apply to any incidental or consequential damages and any implied warranties are limited to the same time periods stated for all expressed warranties. Some provinces and states do not allow the limitation of consequential damages or limitations on how long an implied warranty may last, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from province to province or state to state.

This is a limited warranty as defined by the Magnuson-Moss Act of 1975.

WARRANTY REGISTRATION – HyperCut Mower – 05

Please fax this sheet to (204) 239-4271 or mail it to:

Quadivator Inc.
PO Box 1127
1000 – 6th Ave NE
Portage la Prairie
Manitoba R1N3C5
CANADA

Mower Model # -

Mower Model Type –

Purchased by (Name)

Address-

City

State/Prov/Mail Code

Dealer -

Date Purchased (D/M/Yr)

Thank you!