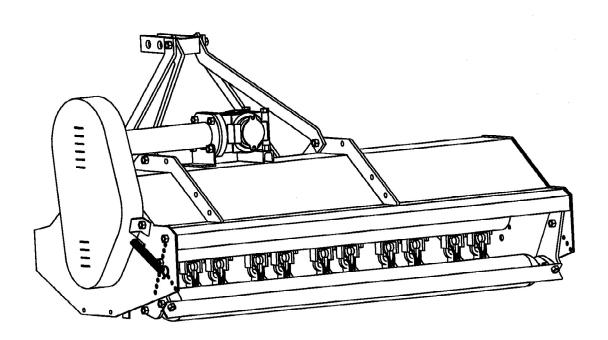
ROTOMEC

Operator's Manual

HURRICANE

Flail Mower

H40-048, H40-060, H40-072



The operator's manual is a technical service guide and must always accompany the machine.

SAFETY

Take note! This safety alert symbol found throughout this manual is used to call your attention to instructions involving your personal safety and the safety of others. Failure to follow these instructions can result in injury or death.



This symbol means:
ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!

Signal Words

Note the use of the signal words DANGER, WARNING and CAUTION with the safety messages. The appropriate signal words for each have been selected using the following guidelines:



DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

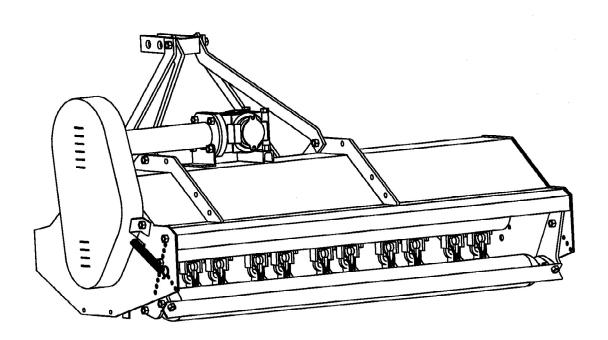
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1 - GENERAL INFORMATION

Thank you and congratulations for having chosen our implement. Your new flail mower is a technologically advanced machine constructed of high quality, sturdy components that will fulfil your working expectations. Read this manual carefully. It will instruct you on how to operate and service your mower safely and correctly. Failure to do so could result in personal injury and/or in equipment damage.

1.01 - General

The implement described in this manual is to be used with tractors with PTO at 540 rpm and clockwise rotation.

If you have purchased a special version of this implement to be coupled with tractors that have a PTO with counter clockwise rotation and/or tractors with a different PTO speed (1000 or 2000 rpm), please replace the instructions in this manual with the actual speed and direction of rotation of your implement.



CAUTION: Always ensure that the coupling of the implement with the tractor is done at the same PTO speed and direction of rotation. Do not operate this implement at a PTO speed or direction of rotation other than that shown on the implement. Serious damage can occur to the machine and/or the operator.



CAUTION: Unless otherwise specified, all hardware is metric. Use only metric tools on metric hardware. Other tools that do not fit properly can slip and cause injury.



CAUTION: Right hand and left hand sides of the implement are determined by facing in the direction the implement will travel when going forward (see fig. 2).

1.02 - Model and Serial Number ID

Attached to the frame is an ID plate showing the model and the serial number. Record your implement model and serial number in the space provided below. Your dealer needs this information to give you prompt, efficient service when you order parts.



Carefully read the Warranty section¹, detailing coverage and limitations of this warranty. Warranty is provided for customers who operate and maintain their equipment as described in this manual. Warranty registration is accomplished by the dealer by completing and forwarding the **Warranty Registration** form to the Company, along with a copy of the dealer's invoice. It is in your best interest to insure that this has been done.

Warranty does not cover the following:

- 1. Cleaning, transporting, mailing and service call charges.
- 2. Normal wear items such as belts, blades, bearings, drivelines, shear pins, slip clutches, etc.
- 3. Depreciation or damage caused by normal wear, accidents, improper maintenance, improper protection or improper use.
- 4. The use of non-original spare parts and accessories.

Your Authorised Company Dealer has genuine parts in stock. Only these approved replacement parts should be used.

This limited warranty covers defective material and workmanship. The cost of normal maintenance or repairs for accidents or improper use and related labour will be borne by the owner.

See Chapter 8 - Warranty.

2 - SAFETY PRECAUTIONS

Safety is the primary concern in the design and manufacture of our products. Unfortunately our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment. It is the operator's responsibility to read and understand all safety and operating instructions in the manual and to follow these.

Allow only properly trained personnel to operate the mower. Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operation, to acquaint yourself with the machines. It is the mower owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating, reads and understands the operator's manuals and is instructed in safe and proper use.

2.01 - Preparation



- 1. Before operating equipment read and understand the operator's manual and the safety signs (see fig. 2).
- 2. Thoroughly inspect the implement before initial operation to assure that all packaging materials, i.e. wires, bands, and tape have been removed.
- 3. Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining and/or repairing the implement.
- 4. Operate the mower only with a tractor equipped with an approved Roll-Over-Protective-System (ROPS). Always wear your seat belt. Serious injury or even death could result from falling off the tractor.
- 5. Clear area to be cut of stones, branches or other debris that might be thrown, causing injury or damage.
- 6. Operate only in daylight or good artificial light.
- 7. Ensure mower is properly mounted, adjusted and in good operating condition.
- 8. Ensure that all safety shielding and safety signs are properly installed and in good condition.

2.02 - Starting and Stopping



1. Be sure that no one is near the machine prior to engaging or while the machine is working.

- 2. Be sure the tractor is in "Neutral" before starting engine.
- 3. Mower operating power is supplied from tractor PTO. Refer to your tractor manual for PTO engagement and disengagement instructions. Always operate PTO at 540 rpm. Know how to stop the tractor and mower quickly in case of an emergency.
- 4. When engaging PTO, the engine rpm should always be low. Once engaged and ready to start cutting, raise PTO speed to 540 rpm and maintain throughout cutting operation.
- 5. Check the tractor master shield over the PTO stub shaft. Make sure it is in good condition and fastened securely to the tractor. Purchase a new shield if old shield is damaged or missing.
- After striking an obstacle, disengage the PTO, shut the tractor down, wait for all moving parts to come to a complete stop and thoroughly inspect for damage before restarting.
- 7. Never engage the PTO until the mower is in the down position and resting on the ground. Never raise the mower until all blades have come to a complete stop.
- 8. To park the vehicle safely, stop vehicle on a level surface (not on a slope), disengage PTO, engage the parking brake, stop the engine, remove the key, and wait for engine and all moving parts to stop before leaving the operator's seat.
- 9. Stay clear of rotating drivelines. Entanglement in rotating driveline can cause serious injury or death. Wear close fitting clothing. Stop the engine and be sure PTO driveline is stopped before getting near it.

2.03 - Messages and Signs

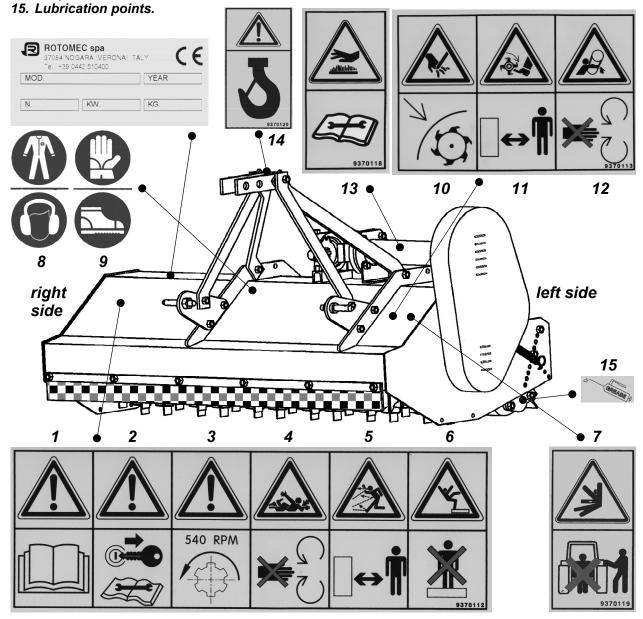


- 1. Read and adhere to all safety and operating decals on this machine (see fig. 2).
- 2. Before dismounting tractor: Allow moving parts to stop, stop engine, set brake and remove the key of unattended equipment.
- 3. Keep away from rotating blades and driveline.
- 4. Keep guards and shields in place and in good condition.
- 5. Do not mow with bystanders in area.
- 6. Allow no riders on tractor or mower.
- 7. Allow moving parts to stop before repair.
- 8. Securely support mower before working underneath.

Additional warning and operating decals are available at no extra charge. Please specify model and serial number when ordering.

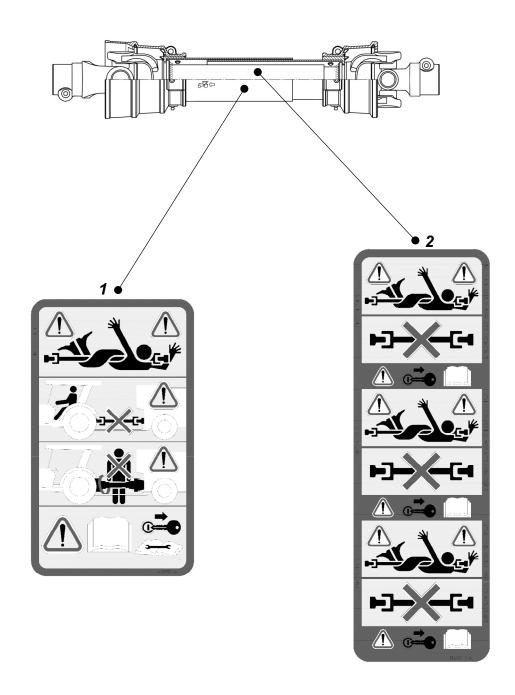
Fig. 2 - Safety decals - implement; replace immediately if damaged.

- 1. Read this manual carefully.
- 2. Before maintenance operations, disengage PTO and shut tractor down.
- 3. 540 rpm PTO only.
- 4. Keep away from rotating driveline.
- 5. Keep away, objects can be thrown.
- 6. Never allow passengers.
- 7. Do not stand between tractor and implement when tractor is in gear.
- 8. Wear protective clothing; snug fit work suit and earplugs or earmuffs.
- 9. Wear protective clothing; safety shoes and gloves.
- 10. Keep all shields in place.
- 11. Keep away from rotating blades.
- 12. Keep shields in place; moving parts.
- 13. Keep away, hot surfaces.
- 14. Lift point.



Safety decals - driveline; replace immediately if damaged.

- 1. Danger: Rotating driveline, contact can cause death. Keep away! Do not operate without:
 - All driveline guards, tractor and equipment shields in place.
 - Driveline securely attached at both ends.
 - Driveline guards that turn freely on driveline.
- 2. Danger: Guard missing, do not operate.



3 - OPERATION

The Hurricane is a sturdy and easy to use flail mower. It is especially designed to offer the best performance wherever professional, highly accurate, safe mowing is required. The Hurricane H40 is engineered to be used with tractors from 15 to 40 HP, 540 rpm² and category 1 three point hitch. It is available in three mowing sizes of 120, 150 and 180 cm.

The tractor PTO power is transferred via a driveline to the gearbox on the mower. From this, the power is sent along a horizontal drive shaft to a side pulley connected to a second pulley by 2 belts which are attached to a horizontal rotor. This rotor, which must be perfectly balanced due to its high rotation speed, carries wide overlapping blades mounted on double pivot blade carriers. The blades turn in a clockwise direction, going against the direction of travel. This cutting motion from bottom to top allows for a much cleaner finish. Our flail mower can be either front or rear tractor mounted. The gearboxes can be turned 180 degrees and the three point hitch is reversible (see fig. 3). The cutting height is controlled by the rear roller.

3.01 - Operational Safety



CAUTION: Our mowers are designed considering safety as the most important aspect and are the safest available in today's market. Unfortunately, human carelessness can override the safety features built into our machines. Injury prevention and work safety, aside from the features on our mowers, are very much due to the responsible use of the equipment. It must always be operated prudently following with great care, the safety instructions laid out in this manual.



- 1. The use of this equipment is subject to certain hazards which cannot be prevented by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using.
- 2. Do not operate the tractor and mower when you are tired, sick or when using medication.
- 3. Keep all helpers and bystanders at least 100 meters from a flail mower. Only properly trained people should operate this machine.
- 4. When this machine is operated in populated areas where thrown objects could injure persons or property, a standard equipment front rubber strip (which is designed to reduce the possibility of thrown objects) must be installed.
- 5. The majority of accidents involve entanglements on the driveline, injury of bystanders by objects thrown by the rotating blades, and operators being knocked

² Versions with PTO at 1000 & 2000 rpm are available upon request.

off the tractor by low hanging limbs and then being run over by the mower. Accidents are most likely to occur with machines that are loaned or rented to someone who has not read the operator's manual and is not familiar with a flail mower.

- 6. Always stop the tractor, set brake, shut off the tractor engine, remove the ignition key, lower implement to the ground and allow mower blades to come to a complete stop before dismounting tractor. Never leave equipment unattended with the tractor running.
- 7. Never place hands or feet under mower with tractor engine running or before you are sure all motion has stopped. Stay clear of all moving parts.
- 8. Do not allow riders on the mower or tractor at any time. There is no safe place for riders.
- 9. Do not operate unless all personnel, livestock and pets are at least 100 meters away to prevent injury by thrown objects.
- 10. Before backing up, disengage the mower and look behind carefully.
- 11. Install and secure all guards and shields before starting or operating.
- 12. Keep hands, feet, hair and clothing away from moving parts.
- 13. This flail mower is designed for use only on tractors with 540 rpm power take off³.
- 14. Never operate tractor and mower under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by the rotating blades.
- 15. The rotating parts of this machine have been designed and tested for rugged use. However, they could fail upon impact with heavy, solid objects such as steel guard rails and concrete abutments. Such impact could cause the broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the cutting blades to contact such obstacles.
- 16. Frequently check mower blades. They should be sharp, free of nicks and cracks and securely fastened.
- 17. Stop mower immediately upon striking an obstruction. Turn engine off, remove key, inspect and repair any damage before resuming operation.
- 18. Stay alert for holes, rocks and roots in the terrain and other hidden hazards. Keep away from drop-offs.
- 19. Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.
- 20. Reduce speed on slopes and sharp turns to minimise tipping or loss of control. Be careful when changing directions on slopes. Do not start or stop suddenly on slopes. Avoid operation on steep slopes.
- 21. When using a unit, a minimum 20% of tractor and equipment weight must be on tractor front wheels. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a front end loader, front wheel weights, ballast in tires or front tractor weights. When attaining a minimum 20% of tractor and equipment weight on the front wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. Do not guess or estimate!

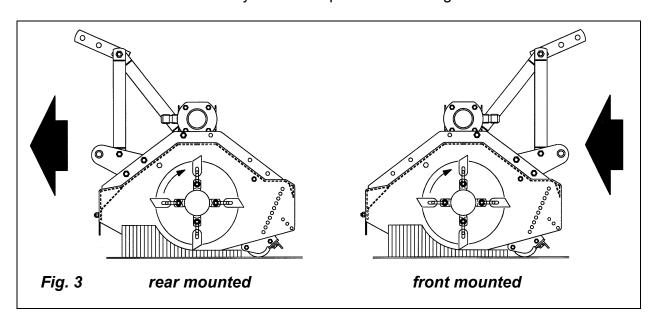
Unless you have a special version of the Hurricane H40 designed for tractors with PTO at 1000 or 2000 rpm.

22. Inspect the entire machine periodically⁴. Look for loose fasteners, worn or broken parts, and leaky or loose fittings.

- 23. Use only the driveline supplied with the mower. Do not use it if it is missing any shield or safety protection.
- 24. Pass diagonally through sharp dips and avoid sharp drops to prevent "hanging up" tractor and mower.
- 25. Avoid sudden starts and stops while travelling up or downhill.
- 26. Always cut down slopes; never across the face. Avoid operation on steep slopes. Slow down on sharp turns and slopes to prevent tipping and/or loss of control.

3.02 - Set Up

Notice to dealer: Pre-delivery set-up and service including lubrication is the responsibility of the authorised dealer. It is up to him to assure that the machine is in perfect condition and ready to be used. It is his responsibility to ensure that the customer is aware of all safety aspects and operational procedures for the mower. He must also fill out the Pre-Delivery Checklist⁵ prior to delivering the mower.





CAUTION: Stand clear of bands when cutting as they could be under sufficient tension to cause them to fly loose. Take care in removing bands and wire, they often have extremely sharp edges and cut very easily.

As mentioned above all our flail mowers may be either tractor front or rear mounted. This can easily be done at our authorised dealerships. In fact, this is accomplished by simply turning the three point hitch and the gearbox 180 degrees (see fig. 3).

⁴ See Chapter 4 - Maintenance.

See Chapter 7 - Pre-Delivery Checklist.

3.03 - Cutting Height Adjustment

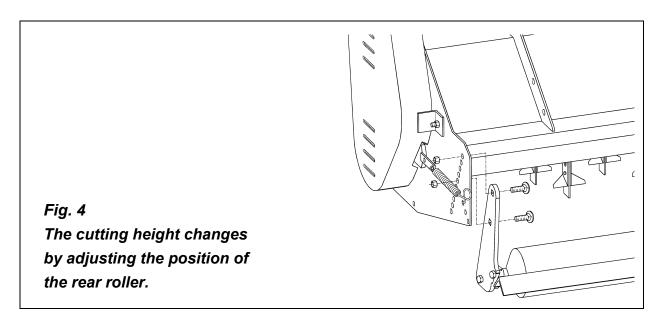


WARNING: Keep hands and feet away from moving blades.

Be sure tractor engine is off, parking brake is locked, and key is removed before making any adjustments. Never rely on the tractor lift system. Install blocks or stands under the mower deck to prevent it from falling.

The cutting height is the distance from the blades to the ground. It is changed by adjusting the position of the rear roller (see fig. 4).

The machine has 6 different cutting height positions. The cutting height is adjustable from 25 to 125 mm. Cutting lower than 5 cm. under most circumstances should be avoided.



To change the cutting height do the following (see fig. 4):

- 1. Loosen and remove the four bolts (two per side) holding the roller support brackets.
- 2. Position the roller in the desired height. There are 10 different hole positions available, two are used at a time.
- 3. Insert the bolts into the two new holes. Ensure the left and right roller brackets are in the same holes in order to maintain a level roller which is parallel to the ground.
- 4. Tighten the bolts and nuts to the proper torque.
- 5. Be sure the mower is level and lock the tractor arms so they will not float down or up when cutting.

IMPORTANT: Very low cutting heights should be avoided. Damaging shock loads occur when the blades strike the ground repeatedly. This can cause damage to the flail mower.

3.04 - Pre-Operational Check

IMPORTANT: Check each of the following, carefully, prior to engaging the equipment:

- 1. The roller bearings have been greased.
- 2. The oil in the gearbox.
- 3. The driveline cross and bearings have been greased.
- 4. No wrappings or foreign objects are around the blades, belts or driveline.
- 5. The blades are properly installed and the blade bolts properly torqued⁶.
- 6. All hardware is tight.
- The tractor, to ensure correct direction of PTO and rpm speed.
- 8. All safety shields and guards are in place and tightly attached.
- 9. No people or animals are in the work area.
- 10. When working, make sure the tractor hitch is locked in position so the front of the flail mower will not float down while mowing.



DANGER: Stay clear of rotating driveline. Entanglement in rotating driveline can cause serious injury. Disengage PTO, wait for all moving parts to come to a complete stop, engage parking brake or place transmission in "Park", shut off the tractor and remove the key before working around hitch, attaching or detaching driveline, making adjustments, servicing or cleaning the machine.

3.05 - Attaching to the Tractor

Unit may be used on tractors ranging from 15 to 40 HP equipped with a standard PTO and category 1 three point hitch⁷. **Never use this mower with tractors over 40 HP.**



CAUTION: Operate the implement only at the speed and direction of rotation indicated on the machine.



CAUTION: Never attempt to attach the mower to the tractor or make any adjustments to it without first turning the tractor off.



DANGER: Failure to ensure a secure coupling of the implement to the tractor can cause injury and damage to the implement or tractor. If necessary, wheel weights, front tractor weights and/or tire ballast should be used to improve stability. Be

⁶ See Table 1, page 29.

⁷ See Table 2, page 29.

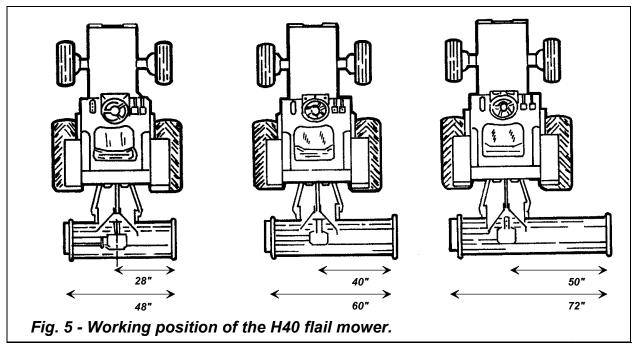
sure that the tractor tire pressure is correct. It is important to strictly follow the safety guidelines and instructions laid out in the tractor's operator's manual.

To attach the mower to the tractor do the following:

- 1. Back the tractor up to the mower in order to slip the tractor hitch arms over the hitch pins on the mower hitch arms. **Turn off the tractor engine.** Secure them in place with the lynch pins.
- 2. Adjust the tractor sway blocks or chains to remove all side movement.
- 3. Attach the top link. Adjust tractor top link to allow the mower, in the working position, to remain as level as possible with respect to the ground.
- 4. Install the shielded driveline to the tractor by first lining up the splines and depressing the snap pin. Push the yoke onto the PTO shaft as far as it will go. Release the pin and pull back slowly until the pin clicks in place. Repeat this operation on the implement end.
- 5. Attach the driveline chains to the tractor and to the mower to keep the driveline protection from turning. The chains should not be too tight.
- 6. Ensure the driveline has at least 5 cm. from bottoming out in its shortest working position and has the minimum 15 cm. overlap in its longest working position. Refer to **Section 4.08**⁸ of this manual, if it is determined that the driveline is too long and needs to be shortened. Contact your local dealer if it is determined that the driveline is too short for your tractor.

3.06 - Working Position

On **series H40**, the three point hitch is centred with the tractor PTO but the frame is offset in order to cut grass close to trees, sidewalks, etc. (**see fig. 5**).



See Section 4.08 - Driveline, for instructions on how to determine correct driveline length and procedures for shortening the driveline.

3.07 - Start Up



DANGER: The mower must always be lowered to the ground before starting tractor engine or engaging PTO lever.

Lower mower to the ground with the tractor rock shaft control lever until the roller is on the ground and the mower frame is parallel to the ground. Lock the tractor rock shaft control lever in this position. With the engine idling, slowly engage the PTO drive. Move the throttle lever gradually until the PTO speed indicated on the mower is obtained.

The mower is normally set for a PTO speed of 540 rpm⁹.

Shift the transmission to a slow speed gear and start forward, increase the ground speed by shifting upward until the desired speed is obtained. Do not mow in reverse unless absolutely necessary and only after careful observation of the area behind the mower.



CAUTION: Do not operate this mower at a PTO speed or direction of rotation other than that shown on the mower. Serious damage can occur to the machine and/or the operator.

Before starting to mow, never forget that the **operator is responsible** for the following:

- 1. Safe and correct driving of the tractor and mower.
- 2. To learn precise safe operating procedures for both the tractor and the mower.
- 3. To ensure all maintenance and lubrication has been performed on the mower.
- 4. To have read and understood all safety aspects for the mower in the operator's manual.
- 5. To have read and understood all safety decals on the mower.
- 6. Checking the condition of the blades. Worn or damaged blades should be changed before starting¹⁰.
- 7. Checking to ensure that the cutting edge is the leading edge of the blade (see fig. 3).
- 8. Checking that there is no wire, weed, grass or other material wrapped around blades.
- 9. Checking to see if front weights need to be added to the tractor in order to maintain balance.
- 10. Checking the tractor tires for the proper pressure in accordance with the tractor's operator's manual.
- 11. Checking that the PTO shield, belt shield, front rubber strip and all other shielding are on the machine and securely in place.
- 12. Making sure the proper attire is worn. Avoiding loose fitting clothing which can become entangled. Wearing sturdy, tough-soled work shoes and protective

OPERATION 17 ROTOMEC

Versions with PTO at 1000 & 2000 rpm are available upon request.

See Section 4.03 - Blade Maintenance.

equipment for eyes, hands, ears and head. Never operate tractor or implements in bare feet, sandals or sneakers.

- 13. Checking area for stones, branches and other debris that might be thrown.
- 14. Ensuring proper lighting is available, sunlight or good artificial lighting.

3.08 - Working Speed

The mowing speed depends on ground conditions, tractor HP, mowing height, and grass thickness. Only a test run will enable you to gauge the optimal working speed for your conditions.

Under most conditions a 2 to 6 km/h ground speed is best. As a rule of thumb, and if the conditions permit, grass dispersion is increased by higher ground speeds.

In order to obtain the best cut possible, always keep the tractor rpm up to the speed indicated on the mower. When increasing or decreasing mowing ground speed, always use gear selection, not engine speed. This will maintain the constant maximum blade speed necessary for a clean cut.

3.09 - Operating Techniques

All of the following factors are important in selecting the proper forward speed:

- 1. Height of grass.
- 2. Type of grass.
- 3. Density of grass.
- 4. Type of terrain.
- 5. Grass condition, wet or dry.

This mower has been designed to cut grass with heights from 10 to 20 cm. It is recommended to avoid cutting grass taller than 25 cm.

For the best results, try cutting the grass at least once per week during growing season. Tall, dense grass should be cut at low speed, while thin medium grass can be cut at a faster ground speed.

Always operate PTO at 540 rpm¹¹. This is necessary to maintain proper blade speed and obtain a clean cut.

Under certain conditions, tractor tires may roll some grass down and prevent it from being cut at the same height as the surrounding area. If this occurs reduce the tractor ground speed but maintain a 540 rpm engine speed. The lower ground speed will permit the grass to at least partially rebound. Under some conditions grass will not rebound enough to be cut even, resulting in an uneven appearance. In general, lower cutting height gives a more even cut with less tendency to leave tire tracks. If cut is still not satisfactory, cut the area twice.

Mow extremely tall grass twice. On the first pass use a high cutting height. On the second pass position the mower at the desired height and when practical, mow at a right angle in travel to the first pass.

Unless you have a special version of the Hurricane H40 designed for tractors with PTO at 1000 or 2000 rpm.

Plan your pattern to travel straight forward whenever possible.

It is better to cut grass more often, than too short. Short grass deteriorates rapidly in hot weather and invites weed growth during growing season.

If at any time the mower should jam resulting in belt slippage of 2 or more seconds, raise the mower and continue for 2-3 minutes. This will allow the pulleys to cool and prolong belt life.



DANGER: Never operate the mower without first ensuring that all protective devices are properly installed. The mower blades can throw objects one hundred (100) meters or more which could result in personal or property damage.

Pick up all rocks and other debris before mowing. Enter new areas carefully. Cut grass higher at first, allowing mower to clear hidden objects.



CAUTION: For emergency reasons learn how to stop the tractor and mower quickly. On the flail mowers always disengage the PTO, lock parking brake, stop engine and allow the mower blades to come to a complete stop before dismounting the tractor.

3.10 - Uneven Terrain



DANGER: Be careful of rollover when operating tractor and mower over uneven ground.

The following precautions should always be observed when working on uneven terrain:

- 1. In extremely uneven terrain rear wheel weights, front tractor weights, and/or tire ballast should be used to improve stability.
- 2. Observe the type of terrain and develop a safe working pattern.
- 3. Whenever traction or stability is doubtful, first test drive over the terrain with the PTO disengaged.
- 4. Operate the implement up and down steep slopes, not across slopes, to prevent the tractor from tipping. Avoid sudden stops and starts, and slow down before changing directions on a slope.
- 5. Pass diagonally through sharp dips and avoid sharp drops to prevent hanging up the tractor and implement.
- 6. Slow down on sharp turns and slopes to prevent tipping or loss of control.
- 7. Avoid tipping the mower while cutting.
- 8. Watch for holes, roots or other hidden objects. Do not use near the edge of a gully, ditch or stream bank.

3.11 - Removing Mower from the Tractor



CAUTION: Disengage tractor PTO. Set parking brake. Stop engine and remove key from ignition. Disconnect mower driveline from tractor PTO shaft. Collapse driveline and store in appropriate place. Disconnect three point linkage and carefully drive tractor away from mower.

3.12 - Transport



CAUTION: Make sure PTO is disengaged and blades have stopped turning before raising mower to full transport position. Do not tow tractor and mower behind other vehicles. Use a properly equipped trailer with heavy tie-downs for towing operations.

Before transporting:

- 1. Always select a safe ground speed that is appropriate for the terrain.
- 2. Beware of traffic on public roads. Install a SMV (Slow Moving Vehicle) sign when travelling on roads or streets. Comply with all federal, state and local laws.
- 3. Reduce ground speed when turning and take care that the implement does not strike obstacles such as trees, fences or buildings.
- 4. Always disengage PTO before raising the implement to transport position.
- 5. When raising the mower be sure the PTO driveline does not hit either the mower or the tractor.
- 6. During transport the mower should not be lifted over 35-40 cm. from the ground.

4 - MAINTENANCE



DANGER: Stop engine, lock parking brake and remove key before performing any service or maintenance.

Never rely on the tractor lift system. Install blocks or stands under the mower to prevent it from falling.

Always use personal protection devices, such as glasses or gloves when performing maintenance.

Keep fingers out of slots to prevent injury.

4.01 - Maintenance Safety



- 1. Good maintenance is your responsibility.
- 2. Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded. Use adequate light for the job at hand.
- 3. Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
- 4. Make no repair or adjustments with the tractor engine running. Before working on the machine, disengage the PTO, shut off the engine, set the brakes, and remove the ignition key.
- 5. Be certain all moving parts on attachment have come to a complete stop before attempting to perform maintenance.
- 6. Never work under equipment unless it is blocked securely.
- 7. Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.
- 8. Frequently check mower blades. They should be sharp, free of nicks and cracks and securely fastened.
- 9. Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.
- 10. When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.
- 11. After servicing, be sure all tools, parts and service equipment are removed.
- 12. Never replace hex bolts with less than grade five bolts unless otherwise specified, i.e. shear bolts¹².
- 13. Where replacement parts are necessary for periodic maintenance and servicing, genuine replacement parts must be used to restore your equipment to original

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Refer to Table 1 - Torque Specifications, page 29.

specifications. The company will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.

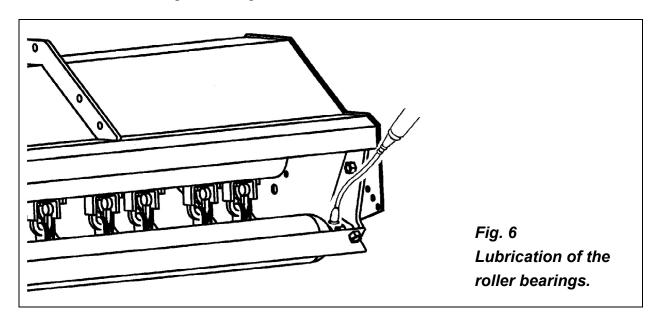
14. Unauthorised modifications to the machine may impair the function and/or safety of the machine and reduce its life. If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.

4.02 - Service

The accompanying illustrations show lubrication points. The chart gives the frequency of lubrication in hours, based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication.

Use a good quality SAE multipurpose type grease for all locations shown. Be sure to clean fittings thoroughly before using grease gun.

Use 90 wt. or 140 wt. gear oil in gearbox.



Hourly or whenever an obstacle is hit:

- 1. The conditions of the blades, double pivot rings, blade carrier brackets welded to the rotor, proper blade mountings or broken or missing blades. Even a single missing or broken blade can unbalance the rotor and create serious damage to the mower or grave danger to nearby persons.
- 2. Do not continue mowing if even one blade is broken or missing. Broken or missing blades must be replaced immediately¹³. Heavily worn blades should be replaced as a complete set in order to maintain a balanced rotor.
- 3. Remove any wrappings, weeds, paper, wire, etc., from the blades and rotor.

Every 8 hours:

1. Lubricate driveline and roller bearings (see fig. 6): Apply two or three shots of grease to the driveline cross and bearings and the telescoping shafts; apply the

See Section 4.03 - Blade Maintenance.

same amount to the roller bearings. See the driveline manufacturer operator's manual for further information on the driveline.

2. **Check gearbox oil level:** It should be between $^{1}/_{2}$ and $^{2}/_{3}$ full. If needed add either SAE 90 wt. or SAE 140 wt. gear oil.

Every 25 hours:

- **1. Check hardware tightness**; mower vibration can loosen bolts¹⁴. Check tightness of the hardware periodically.
- 2. Check belt tension¹⁵.

The bearings in the rotor supports are sealed, and therefore require no maintenance.



DANGER: The beginning of abnormal vibrations from the rotor may mean it is out of balance. A single broken or missing blade is enough to cause this. An unbalanced rotor, due to its high rotation speed, can dislodge itself from the side bearing supports thus destroying the mower and cause serious injury to persons nearby. Always find the source of the vibration. Bring the rotor back in balance by replacing blades, removing wrappings, etc. If this does not remove the vibrations, the rotor may have to be rebalanced at our Authorised Service Dealerships.

4.03 - Blade Maintenance



WARNING: To avoid possible injury always wear proper eye and hand protection when servicing mower blade.

In order for the mower to work properly, and to always obtain a precision cut with lower HP requirements thus keeping cost down, proper blade maintenance is important. Blades must be kept sharp, at their original length and corners maintained. A blade must be replaced if, due to wear or damage, its original shape has been distorted.

Installing or removing blades

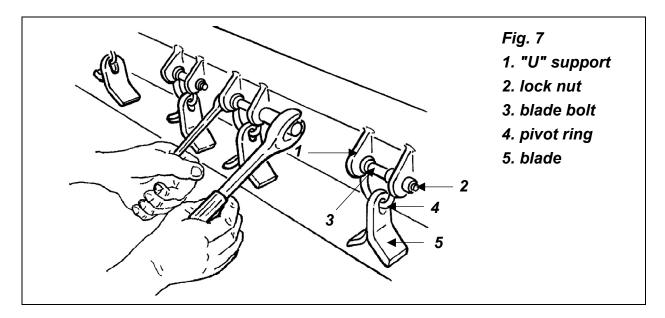
If the mower blades need to be installed, do the following (see. fig. 7):

- 1. Loosen and remove the lock nuts.
- Remove the double pivot ring bolt.
- 3. Remove the worn blades and double pivot ring from the blade carrier welded onto the rotor. Replace with new blades and possibly a new double pivot ring.
- 4. Ensure the cutting edge of the blades is the leading edge in the direction of rotation.
- 5. Replace the bolt and torque the nut to 95 N.m. (70 lb.ft).

MAINTENANCE 23 ROTOMEC

See Table 1, page 29.

See Section 4.05 - Belt Tension.





DANGER: Always remember the rotor must remain well balanced at all times to avoid dangerous vibrations which can damage the overall structure of the mower and cause serious injury to any nearby persons. It is therefore recommended that whenever worn blades are changed, the entire set be changed to avoid unbalancing the rotor with blades of different weights. If a single blade or set in a certain area is replaced, it is best to also replace the blade or set of blades opposite to maintain balance.

If after replacing some of the blades, the vibration remains or increases, it is best to then replace the entire set.

If this still does not remove the vibrations, the mower should be taken to an Authorised Service Dealership to determine if it is necessary to rebalance the rotor.



CAUTION: When the blades are replaced, it is important that all the blades are of the same type and weight. A rotor unbalanced by different blades can damage the mower.

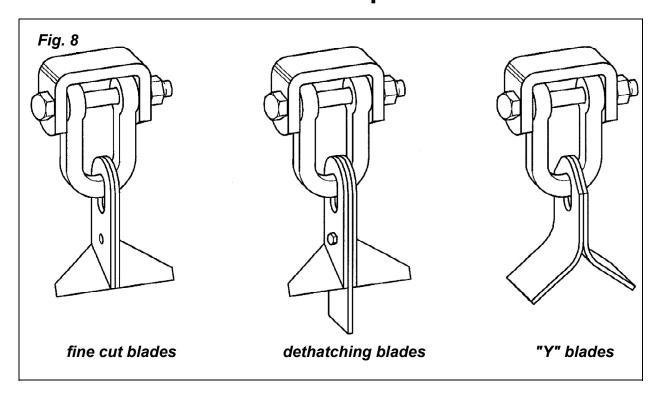


CAUTION: Do not substitute blades or any bolt for the blade retaining bolt. Company blades and blade retaining bolts are specially made for this application. Using non original parts can effect the quality of cut and may also cause damage to the mower.



DANGER: Proper torque must be used when tightening the blade retaining bolt. If these safety precautions are not followed, the blade could come off during operation and be thrown one hundred (100) meters or more from the mower. Ensure that once the bolts are tight, the blades are able to pivot freely with the double pivot ring. This is imperative to not cause damage to the mower.

4.04 - Blade Options

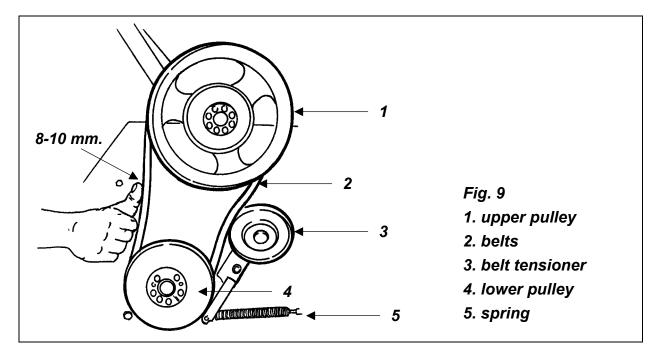


On every double pivot ring there are two blades mounted, one left and one right. The mowers are sent with the standard "fine cut" blade with a 90 degree angle. This blade leaves the grass perfectly level. A "standard cut" blade in the shape of a "Y" is also available. This leaves the grass with a rippled cut. Also available is a straight "dethatching" blade which is used in unison with either of the other two. This blade cuts into grass roots and brings the dead thatch to the top (see fig. 8).

4.05 - Belt Tension

Belt tension control

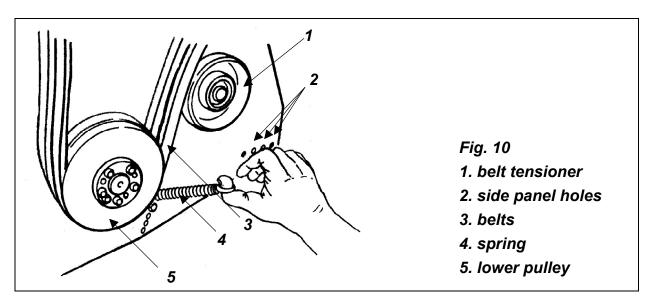
Check the belt tension (see fig. 9) by applying a force of 5-6 kg. pushing against the belt halfway between the pulleys. The belt deflection should be between 8-10 mm.



Belt tension adjustment

To adjust the tension do the following (see fig. 10): The H40 flail mower is equipped with a double side belt transmission and an automatic spring loaded belt tensioner. There are three adjustment holes located on the side panel of the mower.

When the mower is delivered, the spring is located in the first of the three holes. As the belts stretch and the belt deflection increases over 10 mm., it will be necessary to use the other holes. At the point where the belts have stretched beyond where the third hole no longer keeps them at the proper tension, it is necessary to change both belts.



4.06 - Belt Replacement

If the belts have stretched or damaged to the point where the proper tension cannot be obtained they must be changed. Both belts must be replaced at the same time.

To replace the belts do the following:

- 1. With the mower stopped and, if possible supported by stands, remove the belt shield. Clean the belts, pulleys, and shield of grass, dust and dirt.
- 2. Remove the spring.
- Remove the old belts and replace them with the new belts using a screwdriver if needed.
- 4. Replace one end of the spring on the belt tensioner pulley bracket and the other end in one of the three holes in the side panel.
- 5. Ensure that the belts are at the proper tension (see fig. 9).
- 6. Replace the belt shield.

4.07 - Reverse Gearbox Direction

It is possible to reverse the direction of rotation of the output shaft on the gearbox and therefore to use the flail mower with a tractor that has a shaft with a counter clockwise rotation.

To reverse the direction it is necessary to move the ring gear to the other side of the PTO shaft. This operation entails opening the drive transmission. We recommend this be done only at an Authorised Service Centre.

Note: Upon request, the flail mower may come with a PTO driveline equipped with a right-turning (clockwise) overrunning clutch. Always check the direction of rotation on the tractor's PTO to be sure it is the same as the overrunning clutch. If the tractor comes with a left-turning PTO (counter clockwise) the overrunning clutch must be changed to left-turning as well.

4.08 - Driveline



DANGER: Only use the original driveline supplied with this mower and always with the safety shielding.

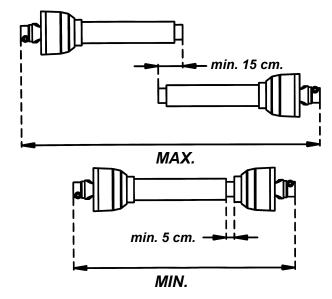
Carefully read and file away the driveline operator's manual supplied by the manufacturer. The following does not substitute the information found in the driveline manual.

IMPORTANT: Always check driveline length during initial set-up and when connecting to a different tractor.

In the collapsed position the driveline should be approximately 5 cm. from bottoming out to prevent possible damage to the tractor or implement. When the driveline is in the

maximum extended position, the ideal minimum overlap of the two halves should be approximately 15 cm. (see fig. 11).

Fig. 11



If determined that the driveline is too long, follow these procedures to adjust the length:

- 1. Separate the two driveline halves. Connect one half to the tractor PTO and the other half to the mower.
- 2. Raise and lower the mower with the 3 point hitch to find the position where the driveline is shortest. Hold the half shafts side by side and mark the desired length on the outer female tube guard leaving a 3 cm. gap between the end of the guard tube and bell guard.
- 3. Cut off both guard tubes the same amount as marked in step 2.
- 4. Shorten both drive tubes the same amount as guard tubes.
- 5. De-burr and clean filings from drive tubes and apply grease to outside of inner telescoping tube.
- 6. Reassemble the driveline halves and connect to tractor and mower. Raise and lower mower again to be sure driveline does not bottom out in its shortest position and has a minimum overlap of 15 cm. in the longest position.
- 7. Install both driveline safety chains. One should be hooked in a hole on the outer driveline yoke shield and to the tractor to restrict outer shield rotation. The second one should be hooked in a hole on the inner driveline yoke shield and to the implement to restrict inner shield rotation.

If determined that the driveline is too short for your tractor, contact your local dealer.



CAUTION: Always work with the driveline as straight as possible. This will prolong its life and that of its components. It is advised not to work at an angle greater than 15 degrees.



CAUTION: When the implement is not hooked to the tractor, the driveline must be supported by the storage hook attached to the top link.

TABLE 1 - TORQUE SPECIFICATIONS

Metrio treado bolts marki	head	5.	_//	8	_//	10		Inch (treade bolts marki	ed head						
	9	Clas	s 5.8	Clas	s 8.8	Class	10.9	····α···	9	Gra	de 2	Gra	de 5	Gra	de 8
Bolt size mm	Thread mm	N.m	ft-lb	N.m	ft-lb	N.m	ft-lb	Bolt size inch	Thread inch tpi	N.m	ft-lb	N.m	ft-lb	N.m	ft-lb
M5	0.8	4	3	6	4	9	7	1/4"	20	7	5	11	8	16	12
М6	1	6	4	10	7	15	11	1/4"	28	8	6	13	10	19	14
M8	1.25	16	12	25	18	36	27	5/16"	18	15	11	24	17	33	25
M8	1	17	13	26	19	38	28	5/16"	24	17	13	26	19	37	27
M10	1.5	31	23	48	35	71	52	3/8"	16	27	20	42	31	59	44
M10	1.25	33	24	51	38	75	55	3/8"	24	31	23	47	35	67	49
M10	1	35	26	53	39	78	58	7/16"	14	43	32	67	49	95	70
M12	1.75	54	40	84	62	123	91	7/16"	20	48	36	75	55	106	78
M12	1.5	56	41	87	64	128	94	1/2"	13	66	48	102	75	144	106
M12	1.25	59	44	90	66	133	98	1/2"	20	75	55	115	85	163	120
M14	2	84	62	133	98	195	144	9/16"	12	95	70	147	109	208	154
M14	1.5	94	69	142	105	209	154	9/16"	18	106	79	164	121	232	171
M16	2	131	97	206	152	302	223	5/8"	11	132	97	203	150	287	212
M16	1.5	141	104	218	161	320	236	5/8"	18	149	110	230	170	325	240
M18	2.5	181	133	295	218	421	310	3/4"	10	233	172	361	266	509	376
M18	2	196	145	311	229	443	327	3/4"	16	261	192	403	297	569	420
M18	1.5	203	150	327	241	465	343	7/8"	9	226	167	582	430	822	606
M20	2.5	256	189	415	306	592	437	7/8"	14	249	184	642	473	906	668
M20	1.5	288	212	454	335	646	476	1"	8	339	250	873	644	1232	909
M22	2.5	344	254	567	418	807	595	1"	12	371	273	955	704	1348	995
M22	1.5	381	281	613	452	873	644	1-1/8"	7	480	354	1077	794	1746	1288
M24	3	444	327	714	526	1017	750	1-1/8"	12	539	397	1208	891	1958	1445
M24	2	488	360	769	567	1095	808	1-1/4"	7	677	500	1519	1120	2463	1817
M27	3	656	484	1050	774	1496	1103	1-1/4"	12	750	553	1682	1241	2728	2012
M27	2	719	530	1119	825	1594	1176	1-3/8"	6	888	655	1992	1469	3230	2382
M30	3.5	906	668	1420	1047	2033	1499	1-3/8"	12	1011	746	2268	1673	3677	2712
M30	2	1000	738	1600	1180	2250	1659	1-1/2"	6	1179	869	2643	1949	4286	3161
M36	4	1534	1131	2482	1830	3535	2607	1-1/2"	12	1326	978	2974	2194	4823	3557

TABLE 2 - HURRICANE H40 FLAIL MOWER - TECHNICAL FEATURES

Series H40, for tractors up to 40 HP, PTO 540 rpm*, 3 point hitch cat. 1										
Model	HP	Working width cm.	Overall width cm.	Weight Kg.	Rotor rpm/min	Blades tip speed m/sec.	# Blades	Cutting height mm.	# Belts & Type	Driveline 1 ³ / ₈ "
H40-048	15-40	120	135	190	2278	45.3	48	25-125	2 SPBX	ASAE 3 ^{rd.} cat
H40-060	15-40	150	165	207	2278	45.3	64	25-125	2 SPBX	ASAE 3 ^{rd.} cat
H40-072	15-40	180	195	240	2278	45.3	76	25-125	2 SPBX	ASAE 3 ^{rd.} cat
* PTO at 100	* PTO at 1000 or 2000 rpm, available upon request.									

5 - REPAIR PROCEDURES



CAUTION: All repair procedures must be done by authorised dealerships. It is not recommended that untrained individuals perform any repair work. The following operations are detailed for qualified personnel only.

5.01 - Gearbox

To remove the gearbox from the frame do the following:

- 1. Disengage the belt tensioner pulley by releasing the spring tension¹⁶.
- 2. Remove the belts¹⁷.
- 3. Unbolt the bolts holding the gearbox to the frame.
- 4. Unbolt the nuts which hold the gearbox to the drive tube.

If it is necessary to replace any part on the inside of the gearbox, it is important to replace oil seals or gaskets to ensure a tight fit when reassembling.

To replace the gearbox, follow the above instructions in reverse order.

5.02 - Rotor Shaft

To remove the rotor do the following:

- 1. Disengage the belt tensioner pulley by releasing the spring tension¹⁸.
- 2. Remove the belts¹⁹.
- 3. Remove the pulley from the left side of the rotor.
- 4. Back off the bearing set screw in the rotor support.
- 5. Unbolt the bolts that attach the rotor support to the frame.
- 6. Remove the rotor supports.
- 7. Slide the rotor from the right side panel and then from the left side.

To replace the rotor, follow the above instructions in reverse order.

5.03 - Suggested Spare Parts

It is suggested that the following spare parts be kept on hand for the mower at all times to prevent a minor problem from delaying work.

See Section 4.05 - Belt Tension.

See Section 4.06 - Belt Replacement.

See Section 4.05 - Belt Tension.

See Section 4.06 - Belt Replacement.

Description	Quantity
Blades	1 set
Blade bolts and nuts	1 set
Double pivot ring	1 set
Belts	2

5.04 - Storage

After seasonal use it is important to perform the following for prolonged storage:

- 1. Wash the mower carefully.
- 2. Inspect the mower and replace worn or damaged parts.
- 3. Tighten all hardware.
- 4. Grease all areas indicated under Maintenance²⁰.
- 5. Loosen the belts if the mower is to be stored for an extended length of time.
- 6. Cover the mower from the elements in order to have it in perfect condition for the start of the next season.



WARNING: Be sure to store the implement on a hard level surface and away from people especially children.

The machine demolition operations should be carried out in compliance with all federal, state and local environment protection laws.

REPAIR PROCEDURES 31 ROTOMEC

See Chapter 4 - Maintenance.

6 - TROUBLESHOOTING



WARNING: Be sure tractor engine is off, parking brake is locked, and key is removed before making any adjustments.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Uneven Machine not parallel to the ground. Blades are worn or bent. Loose belts.		Roller is not in the same adjustment hole pattern. The tractor lift arms are not lifting equally. Change blades. Adjust belt tension.
Grass not cut and/or bent over.	Wrappings around rotor. Wet grass. Grass too high. Tractor rpm too slow.	Remove wrappings. Allow grass to dry. Raise mower, shift to lower gear, make two passes over grass. Mow grass high 1 ^{st.} pass, 2 ^{nd.} pass cut to desired height. Increase tractor rpm, check engine and PTO speeds.
Belts squeal. Belts slipping due to loose belts. Belts slipping due to high grass.		Tighten belts. Raise mower, shift to lower gear, make two passes over grass. Mow grass high 1st. pass, 2nd. pass cut to desired height.
Excessive blade wear.	The cutting height is too low.	Raise the cutting height.
Mower vibrates.	Worn, broken or bent blades. Mower not running at proper PTO speed. Object wrapped around rotor. Rotor out of balance.	Replace blades. Set tractor throttle for 540 rpm (or at rpm indicated on your machine). Remove object. Balance rotor.
Noisy mower.	Loose components. Excessive rpm. Low oil in gearbox.	Tighten hardware. Set tractor to correct rpm speed. Fill to proper level.
Striping or windrowing.	Worn, broken or bent blades. Grass not being picked up after tractor tires tracks. Mower not running at rated PTO rpm. Mower not level. Wrapping or material build-up.	Replace blades. Grass is too high. Cut in two passes at a slower ground speed. Set tractor throttle for 540 rpm (or at rpm indicated on your machine). Level mower with tractor hitch arms. Clean rotor.

7 - PRE-DELIVERY CHECKLIST

To the dealer: Inspect the machine thoroughly after assembly to assure it is functioning properly before delivering it to the customer. The following checklist is a reminder of points to cover. Check off each item as it is found satisfactory or after proper adjustment is made.

 ☐ Lubrication of grease fittings ☐ All hardware properly tighten ☐ All decals properly located a ☐ Blades properly installed, bla ☐ Overall condition (touch up s 	Guards and shield properly fastened. Lubrication of grease fittings. All hardware properly tightened. All decals properly located and readable (see fig. 2). Blades properly installed, blade bolts and nuts tightened. Overall condition (touch up scratches, clean and polish). Test run, check for excessive vibration or overheating of bearings.						
Review the Operator's Manua	l with the customer. Explain the following:						
 □ Warranty. □ Safe operation and service. □ Correct machine installation and operation. □ Daily and periodic lubrication, maintenance and inspections. □ Troubleshooting. □ Operational procedures and storage. □ Parts and service. □ Fill out the Pre-Delivery Checklist and Warranty Registration form. □ Give customer the Operator's Manual and encourage the customer to read the manual carefully. 							
IMPORTANT: Warranty is not valid unless Pre-Delivery Checklist and Warranty Registration form in Operator's Manual is completed in detail and mailed to the Company.							
Model Number:	Serial Number:						
Delivery Date:	Dealer's Signature:						

8 - WARRANTY

The Company warrants its machine from defects in material and workmanship. The machines are warranted from the invoice date for the following periods.

- 1. **24 months** for private use.
- 2. 12 months for commercial, contractual and public use.
- 3. **30 days** for loan or rental.

This warranty is valid only if the Warranty Registration Form is properly completed and sent to the Company within 14 days of delivery along with copy of the invoice.

This warranty is valid only if the machine is paid for in full.

The warranty coverage shall not be transferable from the first owner to any subsequent owner.

This document is the only warranty for this machine, any other promises, express or implied other than those set forth herein are not applicable.

The customer can not request any special provisions or changes to this warranty covering additional responsibilities or liability from the Company.

The Company determines whether the warranty covers the substitution or the repairing of the machine or parts.

The customer is responsible, in all cases, for expenses of lubricants, transportation, any custom duties and applicable taxes.

The substitution or the repair of parts under warranty do not extend the length of said warranty.

This limited warranty does not apply to and excludes drivelines and driveline related safety devices (shear pin yokes, shear pins, slip clutches, clutch discs), tires, belts, blades and other wear items.

At no time will the responsibility of the Company surpass the original purchase price of the machine. The purchaser agrees, not to have any rights to any compensation from the Company, including but not limited to, any eventual damages or accidents, loss of profit, loss of sales, injuries or damages of any kind or nature, or other accidents or losses which could result.

If during the period covered by this warranty, the machine fails to perform due to material or workmanship defects, the purchaser is to immediately make the Company aware of this defect. It is the Company's right to determine if the machine is to have parts replaced, repaired or the machine returned.

The Company will not accept any returned items without prior express written authorisation.

This warranty does not cover cost of labour for the replacement of parts.

Misuse or use of this machine other than ways outlined in the operator's manual or literature invalidates this warranty.

All obligations of the Company under this limited warranty shall be terminated if original parts of this machine have been modified or altered in any way, the machine has been repaired by unauthorised dealers, or when unauthorised spare parts have been used.

The Company reserves the right to modify or update machines without the obligation of modifying or updating previously sold machines.

Venue: any judgements will be decided by the Verona Court.

EC Declaration of Conformity

according to Directive 2006/42/EC

We

ROTOMEC spa Via Molino di Sopra, 56 37054 Nogara (Verona), Italy

declare under our sole responsibility, that the product:

Flail Mower H40	F	lail	M	ower	H4	0
-----------------	---	------	---	------	-----------	---

M	odel	Serial	No.	

to which this declaration relates corresponds to the relevant basic safety and health requirements of the Directive 2006/42/EC.

For the relevant implementation of the safety and health requirements mentioned in the Directives, the following standards were consulted: EN 745 and EN 4254-1. National and International Requirements: ISO 11684:1995.

Pio G. Figna
Chief Executive Officer

Nogara,		

Determination of sound power levels under static conditions, in an essentially free field over a reflecting plane with a Landini tractor model 5860:

Tractor: LpA 91 dB - LwA 105 dB

Machine connected to the tractor: LpA 96 dB - LwA 112 dB

WARRANTY REGISTRATION

ROTOMEC spa Via Molino di Sopra, 56 37054 Nogara (Verona) - Ital

37054 Nogara (Verona) - Italy Tel.: +39-0442-510400 - Fax: +39-0442-510038

Dealer Acct. #	Retail Customer
Street Country	Street
Town State Zip	Town State Zip
Date of delivery Invoice #	Phone
Model # Serial #	Date
Pre-Delivery Checklist: ☐ Oil in gearbox. ☐ Greased fittings. ☐ Safety guards in place. ☐ All hardware tight. ☐ Bolts torqued correctly. ☐ Attached unit to tractor. Yes/No. ☐ Field adjusted. Yes/No. ☐ Test run. Dry/Infield. ☐ Safety decals. ☐ Operator's Manual. The machine described above, has been prepared for delivery according to the Pre-Delivery Check List and the Customer has been instructed in its care and operation and the condition of warranty.	Tractor make:
Inspected by:	
Date:	Date:
Dealer's Signature:	Customer's Signature:

This registration along with a copy of the invoice must be sent to Rotomec spa within 14 days of date of purchase.

:Jepues

Fold here

Place stamp here

ROTOMEC spa

Via Molino di Sopra, 56 37054 Nogara (VR) ITALY





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ROTOMEC spa

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