

TRIMINATOR®

OWNER'S MANUAL V114

CONTENTS

INTRODUCTION	2
SAFETY MESSAGES	2
TRIMMER SAFETY	3
IMPORTANT SAFETY INFORMATION	3
SAFETY LABEL LOCATIONS	4
SETTING UP YOUR TRIMMER	5
CONTROLS	5
BEFORE OPERATION	6
OPERATION	7
SAFE OPERATING PRECAUTIONS	7
STARTING YOUR TRIMMER	8
STOPPING YOUR TRIMMER	9
TRIMMING PLANT MATERIAL	9
TRIMMING TIPS	10
REMOVING OBSTRUCTIONS	10
SERVICING YOUR TRIMMER	10
MAINTENANCE SAFETY	11
MAINTENANCE SCHEDULE	11
CLEANING YOUR TRIMMER	12
TRANSPORTING YOUR TRIMMER	13
TAKING CARE OF UNEXPECTED PROBLEMS	14
CUSTOMER SERVICE	15
WARRANTY	16
EXCLUSIONS FROM WARRANTY	17

INTRODUCTION

Congratulations on your selection of the Triminators commercial leaf trimmer! We want to help you to get the best results from your new trimmer and to operate it safely. This manual contains the information on how to do that; please read it carefully.

We suggest you read the LIMITED WARRANTY (page 17) to fully understand coverage and your responsibilities of ownership. Keep this owner's manual handy, so you can refer to it at any time. This owner's manual is considered a permanent part of the trimmer and should remain with the trimmer if resold. The information and specifications included in this publication were in effect at the time of approval for printing. Mosman Machinery Company, Inc. reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatever. No part of this publication may be reproduced without written permission.

SAFETY MESSAGES

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the Triminators. This information alerts you to potential hazards that could hurt you or others. Please read these messages carefully. Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining a trimmer. You must use your own good judgment.

You will find important safety information in a variety of forms:

Safety Labels - located on the trimmer.

Instructions - how to use this trimmer correctly and safely.

Safety Messages - preceded by a safety alert.

A symbol and one of two signal words: **DANGER, CAUTION**. These signal words mean:



You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.



You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

Each message tells you what the hazard is, what can happen, and what you can do to avoid injury.

Damage Prevention Messages - You will also see other important messages that are preceded by the word **NOTICE**. This word means:



Your trimmer or other property can be damaged if you don't follow instructions.

TRIMMER SAFETY

IMPORTANT SAFETY INFORMATION

Triminator commercial trimmers are designed to trim excess plant material from a variety of herbal material. Other uses could result in injury to the operator or damage to the trimmer and other property. Injuries and property damage from trimmers can be prevented by following all instructions in this manual and on the trimmer. The most common hazards are discussed below, along with the best way to protect yourself and others.

Avoid Rotating Slotted Drum

The Triminator's slotted drum can cause serious damage, cuts and even amputate fingers or hands. Keep hands, arms, and body away from the slotted drum whenever the drum drive motor is running. Keep hair, clothing, and jewelry away from the drum. If you need to work around the trimmer to clear or clean plant material for any reason, always shut off the electric motor and disconnect the trimmer's power cord from the AC outlet. Use a wooden stick to remove any obstruction or debris. ***Never put your hand into the slotted drum while the machine is running; serious personal injury could result.***

Avoid Rotating Cutter Reel

The Triminator's rotating blades can cause serious cuts and even amputate fingers and hands. Keep the Cutter Reel Guard in place at all times while machine is operating. If you need to work around the trimmer to clear or clean plant material for any reason, always shut off the electric motors and disconnect the trimmer's power cord from the AC outlet.

Clear Operation Area

Before operating the trimmer, carefully inspect the area and remove all obvious hazards that could cause you to trip, slip, or fall into the trimmer.

Keep Guards and Shields in Place

Guards and shields are designed to protect you from touching moving components. For your safety and the safety of others, keep all shields in place when the trimmer is running.

Turn Electric Motor Off When Not Operating the Trimmer

If you need to leave the trimmer for any reason, always turn the electric motors off.

Operate on Flat Surface

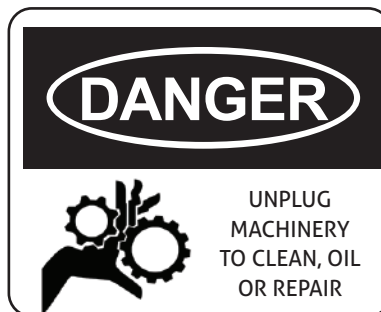
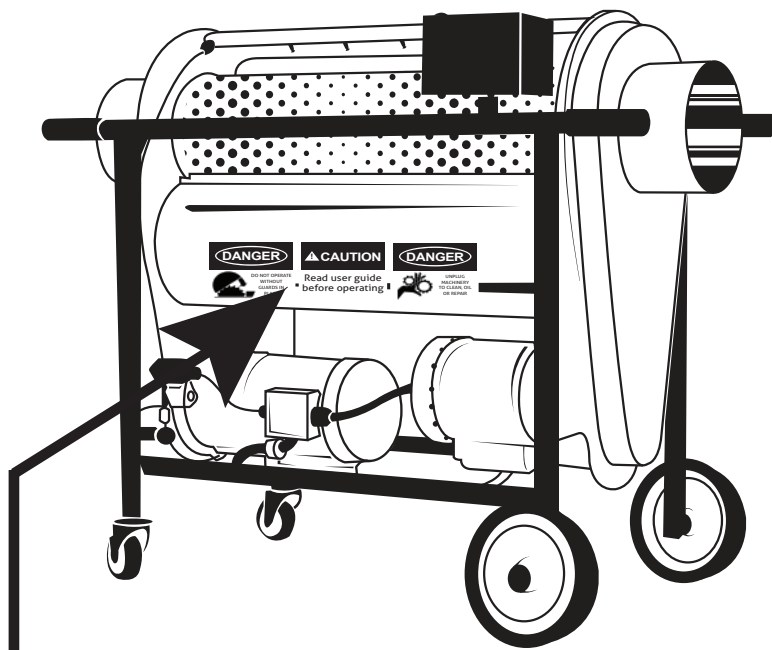
To avoid overturning, only operate the trimmer on flat surfaces. Control the trimmer carefully when transporting it across uneven ground or slopes. Do not push the trimmer down or across steep slopes: the trimmer could overturn, causing injury to the operator or bystanders.

Operator Responsibility

Know how to stop the trimmer quickly in case of emergency. Understand the use of all trimmer controls. Never permit anyone to operate the trimmer without proper instruction. Do not let children operate the trimmer.

SAFETY LABEL LOCATIONS

The labels shown here contain important safety information. Please read them carefully. These labels are considered a permanent part of your trimmer. If a label comes off or becomes hard to read, contact your authorized Triminators dealer for a replacement.



SETTING-UP YOUR NEW TRIMMER

TOOLS REQUIRED

Flathead screwdriver, 3/4" wrench

UNPACKING

1. Remove wooden crate and plastic shrink wrap and other packaging from machine. Remove all cardboard.
2. Unpack vacuum according to vacuum manufacturer's instructions.

ASSEMBLY

1. Lift Trimator off pallet and place on blocks to install the rear wheels with provided bolts. Place one washer on each side of the rear wheel hub and screw the wheel bolts directly into the threaded bosses near bottom of the rear legs of the machine.
2. Install in-feed tray by lifting tray, aligning tube ends, and pushing tray tubes into the open ends of the machine handles. Make this easier by locking the Trimator's front wheels to prevent the machine from rolling away as you push. Remove or install the tray as desired for operation.
3. Attach plastic water tube from the water container to the pump inlet. Pump is located near the bottom of the machine's side frame and pump inlet is on the bottom of the pump marked by a yellow plastic plug. Connections are simple push-in fittings: make sure to push hose all the way in until you feel it bottom out. To remove, depress collar around the hose at the fitting and pull out.
4. Assemble vacuum unit in accordance with vacuum manufacturer's specifications.
5. Position the assembled vacuum unit with its inlet facing the Trimator manifold outlet port. Attach one end of the supplied 6" dia. X 18" collection hose to the vacuum unit inlet and the other end to the Trimator manifold outlet port. Secure hose in place with the supplied hose clamps. For best performance keep the units close together with the connecting hose straight.

CONTROLS

Motor Switch

OFF - stops the motors.
ON - start, run position.

Mister Switch

The mister switch controls the automatic spray mist system on the machine. There are three settings: OFF, TIMER, and MANUAL.

TIMER - activates programmable timer for automatic interval spraying.

OFF - stops timing function.

MANUAL - operates mist system when spring return switch is pushed down.

CONTROLS (CONT)

Vacuum Button

The vacuum button has two positions

OFF - Stops the vacuum.

ON - Starts and runs vacuum.

Vacuum Remote

The vacuum remote has two positions

OFF - Stops the vacuum.

On - Starts and runs vacuum.

BEFORE OPERATION

Read and understand this manual. Know what the controls do and how to operate them. Familiarize yourself with the trimmer and its operation before you begin using it. Know how to quickly shut off the machine in case of an emergency.

Your safety is your responsibility.

IS YOUR TRIMMER READY FOR OPERATION?

For your safety, and to maximize the service life of your equipment, it is very important to take a few moments each time before you operate the trimmer to check its condition. Be sure to take care of any problem you find before you operate the trimmer.

Improperly maintaining this trimmer, or failing to correct a problem before operation, could cause a malfunction which could cause you to be seriously injured. Always perform a pre-operation inspection before each operation, and correct any problem.

Before beginning your pre-operation checks, be sure the trimmer is on a level surface and the motor switch, mister switch and vacuum unit buttons are in the OFF position, and all power cords are unplugged.

Check the General Condition of the Trimmer

Clean the slotted drum, cutter reel blades, and extraction manifold housing before starting the trimmer.

Check the vacuum intake and hose for accumulation of plant material. Clean and remove excess plant material from intake and hose before starting the trimmer.

Check each control for proper operation.

Check belts for wear. Replace if necessary.

Check the rotating blades for wear. Look for signs of damage.

Check that all nuts, bolts, screws, hose connectors, and clamps are tightened.

KEEP ALL SHIELDS AND COVERS IN PLACE WHILE OPERATING THE TRIMMER.

OPERATION

CHECK YOUR WORK AREA

For your safety and the safety of others, always inspect the area before operating the trimmer.

Objects: Anything which can be grabbed by the rotating slotted drum and or pulled into the rotating blades is a potential hazard to you and others. Look for hazards and remove them from the work area. Tie back loose clothing and long, loose hair. Remove any jewelry.

SAFE OPERATING PRECAUTIONS

Before operating the trimmer for the first time, please review both the TRIMMER SAFETY section (page 2) and the BEFORE OPERATION section above.

Even if you have operated other trimmers, take time to become familiar with how the Triminators work.

Never tamper with or alter any of the controls or safety devices on the trimmer.

Do not operate on slopes.

Never operate Triminators while under the influence of drugs, alcohol or prescriptions, including over-the-counter cold/flu medications and allergy medications.

Protective clothing and eye and/or hearing protection should be worn during operation.

For your safety, do not operate while wearing loose-fitting clothing, jewelry, etc..

Long hair should be secured in a manner that keeps it away from mechanical parts.

Rotating machinery parts can entangle loose clothing, long hair or dangling jewelry resulting in serious injury or death.

STARTING THE TRIMMER

CONNECT POWER CORDS

1. Connect the vacuum's power cord to a 20 amp 120 vac AC circuit. Do not connect and disconnect the power cord with wet hands. Do not operate in the rain.
2. Connect the vacuum's power cord to a 20 amp 120 vac AC circuit. Do not connect and disconnect the power cord with wet hands. Do not operate in the rain.

NOTICE

The Triminators machine and the Vacuum EACH draw 15 amps. Therefore it is critical that they EACH be plugged into a separate 20 amp circuit.

If a longer extension cord is required make sure that it is at least rated at #8/3 wire size or larger, or 6/3, to prevent under-voltage, over-current conditions. (smaller numbers = larger wire size ie. #10 is a larger capacity wire than #12. The /number indicates the number of conductors in the wire i.e. /3 means three conductors).

When operating off grid, a 6500 -7000 watt capacity generator is required.

STARTING THE VACUUM

1. Turn the vacuum switch to the ON position.

STARTING THE MOTOR

1. Turn the Triminators motor switch to the ON position.

STARTING THE MISTER

1. Push the mister switch down to the MANUAL position for 15-30 seconds to coat the drum surface with a layer of water before trimming.
2. Once the exterior of the rotating slotted drum is wet, switch the mister switch to the timer position.
3. Set mister interval settings, as needed, by adjusting the mist system timer. (see below) ***Note: System is designed to be adjusted for conditions. Keep drum wet and shiny to maximize production.***

ADJUSTING THE MIST SYSTEM TIMER

ADJUSTING THE DURATION OF SPRAY:

Repeatedly press the "P" button until there is a single red dot next to the letter "S" on the display. In this setting, the screen will display the number of seconds the system will spray at each interval. Press the number buttons (1,2,3,4) to adjust the time. "1" = tenths of a second, "2" = seconds, "3" = tens of seconds, "4" = hundreds of seconds.

see next page for ADJUSTING THE TIME BETWEEN MISTING INTERVALS

STOPPING THE TRIMMER

ADJUSTING THE TIME BETWEEN MISTING INTERVALS:

Repeatedly press the "P" button until there is a single red dot next to the letter "S" and the letter "P2". In this setting the screen will display the number of seconds between spray intervals. Press the number buttons (1,2,3,4) to adjust the time.

To stop the Triminators in an emergency, turn the motor switch to the OFF position.

Under normal conditions, use the following procedure.

STOPPING THE VACUUM

1. Turn the vacuum switch to the OFF position.

STOPPING THE ELECTRIC MOTOR

1. Turn the motor switch to the OFF position.

STOPPING THE MISTER

1. Turn the mister switch to the OFF position.

DISCONNECT POWER CORDS

1. Disconnect the trimmer's power cord.
2. Disconnect the vacuum's power cord.

NOTICE: *Be sure to hold the plug when disconnecting the power cord from the electrical outlet. Do not disconnect by pulling on the power cord.*

TRIMMING PLANT MATERIAL

Once the machine and vacuum have been turned on:

1. Load prepped, untrimmed plant material into the in-feed tray.
2. Hold the mister switch in the MANUAL position and allow the mister to spray for several seconds or until the exterior of the rotating slotted drum is slightly wet.
3. Then move the mister switch to the TIMER position to activate the automatic interval timing function.
4. Feed unprocessed plant material into the slotted drum by pushing material from the back of the hopper towards the rotating slotted drum. Be careful not to put your hand inside the slotted drum when pushing material.

NOTICE: *To prevent plant residue and resin accumulation on the slotted drum, keep drum surface slightly wet through use of the mister system.*

A whining, clicking, or scraping sound indicates resin or plant residue build-up on the drum or cutter reel surfaces. For best results increase water mist volume to the drum surface by adjusting the mist timer program to lengthen spray duration or shorten off-interval times.

Mist volume can also be added by using the MANUAL position on the timer switch. Should trim quality begin to decrease, stop operation, disconnect power cord and clean trimmer cutter reel.

TRIMMING TIPS

For best efficiency, run large batches of similar material through the machine rapidly. For a closer trim run processed material through additionally until desired trim is accomplished.

To prevent frequent cleaning, make use of the mister's timer function. Each plant's waste and residue properties are different, so timer duration and interval settings may need to be adjusted to adequately wet the rotating slotted drum surface for the type of material being processed. Follow our Tips for Optimal Performance guide for additional tricks to increase performance.

REMOVING OBSTRUCTIONS

If the rotating slotted drum becomes restricted or clogged:

1. Stop the motors.
2. Make sure that all rotating parts have come to a complete stop.
3. Disconnect the trimmer's power cord.
4. Use a wooden stick to clear the obstruction.

SERVICING YOUR TRIMMER

Proper maintenance is essential for safe, economical, and trouble-free operation. To help you properly care for your trimmer, the following pages include a maintenance schedule. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by a Triminotor technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your trimmer under severe conditions, such as sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, consult your servicing dealer for recommendations applicable to your individual needs and use. Remember that an authorized Triminotor servicing dealer knows your trimmer best and is fully equipped to maintain and repair it. To ensure the best quality and reliability, use only new, Triminotor Genuine parts or their equivalents for repair and replacement.

NOTICE: Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed. Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

MAINTENANCE SAFETY

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task. Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed. Always follow the procedures and precautions in this owner's manual.

Safety Precautions

Make sure all motors are off and power cords are unplugged before you begin any maintenance or repairs.

Read the instructions before you begin, and make sure you have the tools and skills required.

MAINTENANCE SCHEDULE

INTERVAL	ITEM
Before each use	Check that belts are snug and correctly positioned on pulleys. Check that vacuum, hose and inlet are free of excessive debris. Ensure that machine is clean and the drum can be rotated without power under manual force. Check that mist sprayers are functioning properly, clean or replace nozzle filters or nozzle assemblies as necessary.
After each use	For best performance and longevity, clean trimmer after every use or if plant material is visibly affecting the trim quality or speed of the trimmer.
After each use	To assist in cleaning, remove reel cover from the reel and scrape off any build up.
Every 25 hours of operating time	Apply grease (NLGI #2 or equivalent) to slotted drum bearing grease zerks (one on each end of the machine) until a hint of grease shows between the bearing retainer ring and the slotted drum. For best results, apply grease, rotate drum 1/4 turn, apply grease, etc, until grease is well distributed around the drum.

CLEANING

CLEANING

Pressure Washing

1. Shut off motors. Unplug power cords.
2. Remove reel cover.
3. Using a pressure washer with no more than 1800 PSI lightly spray entire trimmer with biodegradable soap or degreaser, focusing primarily on the rotating slotted drum and rotating blades.
4. Let degreaser sit on trimmer for several minutes, then rinse trimmer.

Hand Cleaning

If you are not using a pressure washer:

1. Cover entire blade and reel cover with a thick coat of cooking oil (olive, vegetable, etc) let it sit for 3-12hrs.
2. Using warm/hot water, concentrated dish soap and a tough scrubber clean the drum and other machine components. You should notice a significant difference in how easy it is to manually clean the machine after using the oil.
3. Depending on frequency of use the slots of the drum may need to be cleaned every few weeks or after every season. Significant buildup of material in the slots which obscure the sharp edge of the slot are a good indication that cleaning may be required.

NOTICE: For best results use hot water whenever possible. Be careful when selecting the degreaser that it will not damage the painted or anodized components of the trimmer. Always follow the operating instructions provided with the pressure washer.

NOTICE: Take care not to damage the trimmer's finish by holding the nozzle excessively close to the machine or by focusing the spray directly on the slotted drum bearing housings.

TRANSPORTING

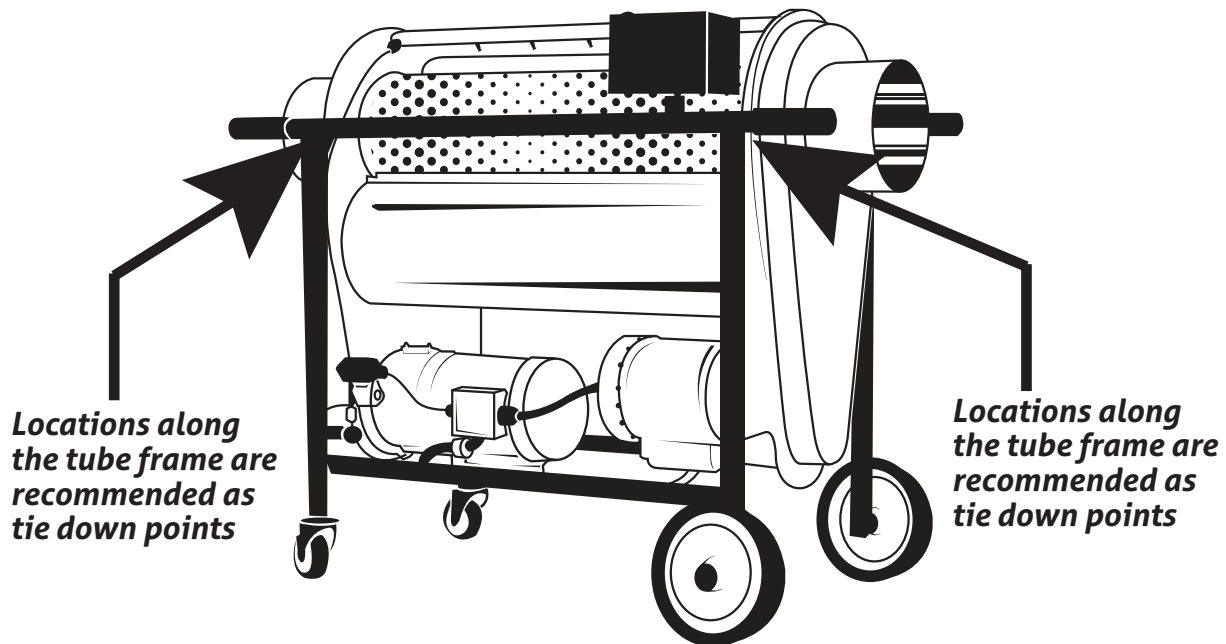
LOADING AND UNLOADING

If a suitable loading ramp is not available, two people should lift the machine on and off the transport vehicle.

Position the machine so that all wheels are on the bed of the transport vehicle. Tie the machine down with rope or straps, using the tube frame of the machine as the primary load points. Lock wheels to avoid slippage after loading and during transport.

NOTICE: *Keep the tie-down rope or straps away from the control panel, and motors.*

DO NOT use the drum or reel as tie down points or load them in any way. Doing so may cause damage to the machine.



TAKING CARE OF UNEXPECTED PROBLEMS

ELECTRIC MOTORS WILL NOT START OR HAVE LOW POWER

POSSIBLE CAUSE	CORRECTION
No electric power from the outlet	Try a known good electrical outlet.
Outlet is overloaded	Check that vacuum and machine are each connected to separate 20amp breakers.
Extension cord is faulty	Check that extension cord, if used, is rated appropriately for the distance and current. Do NOT use a longer cord unless the wire size is larger. Undersized extension cords may cause an under-voltage, over-current condition which could damage or destroy the drive motor.
Overcurrent circuit has been exceeded	<p>Determine the cause of the excessive circuit resistance which may include: overloaded outlet, faulty extension cord, bad outlet, underrated generator, excessively dirty machine, incorrectly aligned belts or an obstruction between the drum or reel and another part of the machine.</p> <p>Once the source of the resistance has been identified and resolved, reset the circuit by pressing the small button on the control panel for 3 seconds then operate the machine normally.</p>

NO WATER, WATER DRIPS OR STREAMS OUT OF SPRAY NOZZLES

POSSIBLE CAUSE	CORRECTION
Mist nozzle is broken or clogged	Replace mist nozzle with new nozzle by unscrewing old nozzle and screwing in new nozzle until snug.
Mist nozzle is loose	Check that all mist nozzles are snug in the spray bar.
In-line water filter is clogged	Clean or replace filter element.

TAKING CARE OF UNEXPECTED PROBLEMS (cont)

DRUM IS EXCESSIVELY WET OR EXCESSIVELY DRY

POSSIBLE CAUSE	CORRECTION
Mist System Timer is incorrectly set for the material	The machine functions best and requires the least amount of maintenance when the drum is constantly covered with a thin layer of water. If there is a need to adjust the Mist System Timer follow the instructions on the machine and on page 8 of this manual.

TRIM QUALITY HAS DECREASED, FINISHED TRIM APPEARS ROUGH

POSSIBLE CAUSE	CORRECTION
Cutter reel is excessively dirty	Clean cutter reel, particularly the cutting edge.
Vacuum inlet or tube is restricted	Check that vacuum and tube are clean of debris and material build-up.

MACHINE MAKES A LOUD SCRAPING OR CLICKING SOUND

POSSIBLE CAUSE	CORRECTION
Drum and cutter reel blades are excessively dirty	Clean drum. This is the primary cause of this issue.
Factory alignment has been altered	Contact Triminators to determine if this is the cause and for live consultation on correcting the issue.

DRUM DOES NOT ROTATE UNDER MANUAL FORCE

POSSIBLE CAUSE	CORRECTION
Drum and cutter reel blades are excessively dirty	Clean drum and cutter reel blades, excessive plant material has built up on these surfaces and is causing excess friction.

CUSTOMER SERVICE

For all customer service inquiries or to help you diagnose any issues with your machine contact Triminators directly:

Phone: 530.265.4277

Email: infor@thetriminators.com

Web: www.theTriminators.com

LIMITED WARRANTY

TRIMINATOR EQUIPMENT

This warranty is limited to the Trinator Trimming Machine distributed by Mosman Machinery Company, Inc., Nevada City, California 95959. The following warranty applies to all Trinator products purchased directly or from retail outlets after January 1, 2013.

LENGTH OF WARRANTY

All Trinator products are covered under this warranty for a length of 24 months from the date of original purchase.

TO QUALIFY FOR THIS WARRANTY:

The product must be purchased in the United States, directly from Mosman Machinery Company, Inc. or from a dealer authorized by Mosman Machinery Company, Inc. to sell those products. This warranty applies to the first retail purchaser during the applicable warranty time period.

WHAT WILL BE REPAIRED OR REPLACED UNDER WARRANTY:

Mosman Machinery Company, Inc. will repair or replace, at its option, any part that is proven to be defective in material or workmanship under normal use and proper maintenance as prescribed in this Manual during the applicable warranty time period. Warranty repairs and replacements will be made without charge for parts or labor. Any part replaced under warranty becomes the property of Mosman Machinery Company, Inc. All new parts replaced under warranty will be considered as part of the original product, and any warranty on those parts will expire coincident with the original product warranty.

TO OBTAIN WARRANTY SERVICE:

You must call Trinator/Mosman Machinery Company, Inc. to discuss the warranty issue.

Phone: 530.265.4277

Following the qualifying phone conversation Mosman Machinery Company, Inc. may direct you to do one of the following:

At your expense, take the Trinator product, part to be replaced, or the equipment on which the part to be replaced is installed, and a proof of purchase to the Trinator dealer from whom you originally purchased the product, during the dealer's normal business hours.

Alternatively, Mosman Machinery Company, Inc. may direct you in writing (email) to deliver your product to a different location at a distance less than or equal to the distance from your current location to the dealer from which you originally purchased the product.

LIMITED WARRANTY

EXCLUSIONS FROM WARRANTY COVERAGE

The following items and conditions are excluded from warranty coverage:

1. Any damage or deterioration resulting from the following:
 - Neglect of the periodic maintenance as specified in this manual.
 - Improper repair or maintenance.
 - The use of non-genuine Trinator parts and/or products other than those approved by Mosman Machinery Company, Inc.
 - Exposure of the product to chemical agents, sea water, sea breeze, salt or other damaging environmental phenomena.
 - Collision, deterioration, neglect, unauthorized alteration, misuse, incorporation or use of unsuitable attachments, products or parts.
 - Natural wear and tear (natural fading of painted or plated surfaces, sheet peeling and other natural deterioration).
2. Consumable parts: Mosman Machinery Company, Inc. does not warrant parts that deteriorate due to natural wear and tear.
3. Cleaning, adjustment, and normal periodic maintenance work (lubrication, blade sharpening, belt adjustments).
4. Any product that has ever been declared a total loss or sold for salvage by a financial institution or insurer.

DISCLAIMER OF CONSEQUENTIAL DAMAGE AND LIMITATION OF IMPLIED WARRANTIES:

Mosman Machinery Company, Inc. disclaims any responsibility for loss of time or use of the product, transportation costs, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.