LIMITED WARRANTY

GAMMA SPORTS ("GAMMA") warrants to the original purchaser that the GAMMA 5003 stringing machine ("EQUIPMENT") purchased is free from defects in materials and workmanship for a period of five (5) years from the date of original purchase for mechanical parts and for a period of one (1) year from the date of purchase for string clamps. Should any defects develop under normal use within the specified time periods, GAMMA will at its option, repair or replace the defective EQUIPMENT provided it is returned to GAMMA prepaid at the purchaser’s expense. This warranty does not apply to any damage or defect caused by negligence, abuse, misuse, unauthorized alteration, shipping, handling or part wear and tear as a result of normal use.

Routine maintenance, adjustment and cleaning required to ensure proper operation are the responsibility of the purchaser and are not covered under the terms of this warranty. These include, but are not limited to: Linear Gripper Plate adjustment, as described on page 8, String Clamp adjustment, as described on page 16, tension calibration, as described on page 14, and Tensioner Brake adjustment, as described on page 15.

GAMMA's obligation under this warranty is limited to repair or replacement of defective EQUIPMENT, and no one is authorized to promise any other liability. GAMMA shall in no event be liable for any incidental or consequential damages.

To return defective EQUIPMENT, a return authorization (RA#) must be obtained from a GAMMA customer service representative by calling 1-800-333-0337. The RA# must be marked on the outside of the shipping carton being returned. All returns must be shipped prepaid by the customer to GAMMA. Please retain the original shipping carton and packing materials for any future shipments.

A GAMMA Care Service Plan is also available through GAMMA customer service, call 880.333.0337 for details.
FEATURES

MACHINE FEATURES

- Manual Spring Tension Winder with 11 to 89 lbs Tension Range
- Patented Roller Guide for Maximum Accuracy and Consistency
- Parallel Jaw Gripper with Diamond Dust Coated Gripping Surfaces
- Professional Two Point Self-Centering Racquet Mounting System- Accommodates All Racquets
- Professional “Quick Action” Dual Action, Rotating, Metal Fixed String Clamps with Diamond Dust Coating
- Full 360 Degree Turntable Rotation
- Large Convenient 141 sq. in. Tool Tray
- Height Adjustable from 36” to 48”
Unpacking Instructions & Contents

Instructions for Unpacking and Preparing for Assembly

The stringing machine is shipped in two cartons, a Master carton has the stringing machine floor stand, base legs, tensioner and accessories. The Mounting System Carton has the turntable, clamps and mounting system. **Please save the cartons and packing materials for possible shipments in the future.** Gamma Sports cannot be responsible for machines that are not returned, shipped in their original, undamaged packaging. The tools you will need to assemble the machine are provided with the machine.

Once the cartons are opened, remove all parts and check to be sure that all parts are present and accounted for.

Contents of Master Carton (MMU2-14)
1. Lower Column Support Post
2. Upper Column Support Post
3. Short Legs w/ Adjustment Feet
4. Long Leg w/ Adjustment Foot
5. Bellows Set
6. Tool Tray w/ Pad
7. Tensioner Assembly
8. Tensioner Track
9. M8 x 25 Flat Head Screws
10. M8 x 30 Cap Screws
11. Tool Kit (contains side cutter, bent nose pliers & needle nose pliers)
12. Straight Stringers Awl & (1) Pathfinder Specialty Awl
13. Tools for assembly and maintenance

Contents of Mounting System Carton (MMU2-67)
1. Turntable Assembly w/String Clamp Bases and Mounting Stands
2. String Clamps
3. 17mm Socket wrench
ASSEMBLY INSTRUCTIONS

Base Leg Assembly

The stringing machine uses a four leg base design. The legs must be assembled to the lower column support before use. This is the larger of the two posts with the GAMMA label.

Note: For illustration purposes, the support column has been painted white for these instructions.

Align the holes in the leg flange with the matching holes in the lower column support post. Secure the leg with one FLAT HEAD cap screw through the upper hole, and one SOCKET HEAD cap screw through the bottom hole. Repeat this procedure for the three remaining legs.

Base Foot Height Adjustment

Each foot of the Base Stand can be adjusted to compensate for uneven surfaces.

Upper Column Support Assembly

The upper column support is shipped inside of the lower column support. Unloosen the two set screws at the top of the lower column support / base leg assembly. Extend the upper column to the maximum height and lock in place with the two set screws located at the top of the lower column support.
ASSEMBLY INSTRUCTIONS

Bellows Installation
The bellows assembly is supplied in two pieces and should be assembled as follows. Place the bellows section with the flange over the upper support column with the flange on the top. Place the remaining bellows over the upper support column and mate it with the flange on the lower bellows.

Tool Tray Installation
Lower the tool tray over the top of the upper column support and let it rest loosely on the bellows assembly.

Tension Track Installation
Place the tube of the tension track assembly over the top of the upper column support and align the tension track with the long leg of the base. Securely tighten the two socket set screws on the tension track assembly tube, locking it to the upper column support. Align the notch in the tool tray with the tension track bar while raising the tool tray. Secure the tray with the set screws in the side of the tray casting.
Installing the Tensioner

Remove the button head screw and washer located at the end of the tensioner bar with the 3mm hex wrench provided. Slide the tensioner onto the bar, being careful to align the bar with all of the bearings and the drive gear with the gear track. Replace the button head screw and washer in the end of the tensioner bar.

String Clamp Installation

The post of the string clamp and tube of the string clamp base are treated with grease to provide protection against corrosion during shipping. Remove any excessive grease with a clean cloth prior to use. The post and tube may also be cleaned with isopropyl alcohol. After this type of thorough cleaning, the post and tube should be treated with a light coating of machine oil to protect the surfaces against corrosion and to ensure smooth operation.

Turntable and Mounting System Installation

To install the turntable position the turntable over the turntable pin and align the bolts, located in the poly bag, with the holes in the flange. Secure them with the included allen wrench.

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MOUNTING THE FRAME

Adjusting the Inner Racquet Supports
The white racquet supports are adjustable to accommodate all racquets and provide maximum support to the racquet frame. Screw the pads up or down so they contact the frame at a maximum height without blocking the grommet holes.

Mounting Stand Adjustment
When mounting a racquet, adjust the Mounting Stands so that the white Racquet Supports on top of the Mounting Stands fit inside the hoop of the racquet. Lower the racquet over the Racquet Supports and adjust the Mounting Stands until the supports just make contact with the inside surface of the racquet at the head and throat. There is an arrow on the face of each knob indicating the turning direction that will “Tighten” the mounting points by moving the 2pt Mounting Stands further apart to bring the Racquet Supports closer to the inside surface of the racquet at the head and throat. Turning the knobs in the opposite direction will move the Mounting Stands closer together and will allow the Racquet Supports to move away from the racquet frame.

Height Adjustment
The turntable height can be adjusted to suit the stringer. To adjust, loosen the two set screws on the lower column support post below the bellows assembly. Adjust the amount of engagement between the upper and lower column supports until the desired height is attained. Make sure that the tension track is still aligned with the long leg of the base and tighten the two set screws to lock the upper support column into place.
MOUNTING THE FRAME

Racquet Hold Down Clamp Operation
With the lever in the up position, insert the racquet hold down clamp pin into the hole in the center of the mounting stand. Lower the hold down clamp until it just makes contact with the surface of the racquet. Using slight palm pressure on the hold down clamp depress the racquet hold down lever completely to secure the racquet frame to the stand.

Special Throat Mounting
For racquets with a bridge that is thinner than the rest of the frame or are tapered from head to throat you may need to mount the racquet with the shafts of the racquet supported by the white support pads as pictured.
STRINGING THE FRAME

Clamp Base Operation
To lock the string clamp base to the turntable, rotate the clamp base locking lever clockwise. To release the string clamp base from the turntable, rotate the clamp base locking lever counter-clockwise.
The locking lever should be tightened enough to prevent clamp base slippage on the turntable when the desired tension is placed on the string.

String Clamp Operation
The string clamps are a dual action design where the string clamp and clamp base operate independently of one another.
To clamp a string, lift the string clamp, place the string between the jaws and depress the string clamp lever to secure the string. The clamping pressure applied to the string should be adjusted to provide sufficient pressure to secure the string when subjected to the desired pulling tension. The diamond coated gripper plates provide for increased friction between the clamps and the string to allow for reduced clamping pressure while securing and holding the string under tension.
Note that excessive pressure can damage both the strings and String Clamp.

Setting Tension
The tensioner utilizes a rotary adjusting knob along with a linear tension scale to indicate the tension setting. The scale is divided into 3 lb. increments and each 1/3 turn of the tension knob changes tension by 1 lb. To set the desired tension, rotate the tension knob and align the mark on the spring guide with the desired tension setting on the scale. When the “0” mark on the knob aligns with the line on the knob support the tension will be that indicated on the scale. To increase tension by 1 or 2 lbs turn the knob counterclockwise until the “1” or “2” mark on the knob aligns with the line on the knob support. To decrease tension by 1 or 2 lbs, turn the knob clockwise until the “2” or “1” mark on the knob aligns with the line on the knob support.
Setting the Gripper Jaw Spacing
The gripper jaws of the tensioner are adjustable to accommodate varying string gauges. If the string slips through the gripper jaws while pulling tension, rotate the gripper jaw adjustment screw counter-clockwise. If the string is damaged while pulling tension, rotate the gripper jaw adjustment screw clockwise. The jaws will be properly adjusted when there is enough pressure to securely grip the string without causing damage to the string.

Tensioner Travel Stop
To prevent contact between the tension head and the racquet and/or turntable, a travel stop is located about midpoint along the tensioner bar below the gear track. In the event the tension head must be moved closer to the racquet, pull and turn the travel stop 90 degrees. To re-engage the travel stop, simply pull and turn the travel stop 90 degrees.
STRINGING THE FRAME

Getting Started

To begin stringing the main strings, thread the two ends of the string through the two center holes at the appropriate end of the frame and continue through the opposite center holes. Thread one end of the string through the adjacent grommet hole and pull excess by hand.

Secure one of the strings using a string clamp.

Pulling Tension

Wrap the loose section of string once around the roller guide and insert the string between the diamond dust coated string gripper plates. Pull the string perpendicular to the gripper plates while slowly rotating the tensioner crank clockwise until the brake lever pops out of the latching block. The string is now tensioned and can be clamped in place with the remaining fixed clamp.

Repeat the above steps until all main strings are installed. Tie off ends of main strings at the appropriate hole as per racquet manufacturers specifications.

Clamping the First Main String

Secure the tensioned main string using the free fixed clamp. Repeat the procedure for all of the remaining main strings and tie off following the racquet manufacturers recommendations.

Follow the manufacturer’s recommended stringing pattern for one or two piece stringing. This will determine the starting point for the cross strings. If applicable, tie the first cross string using an appropriate starting knot.
STRINGING THE FRAME

Weaving the Cross Strings
Weave the cross strings over and under the main strings being careful to alternate the weave direction of each consecutive cross string so as to be opposite of the previously installed cross string.

Completing the String Job
Once the final cross string is tensioned and clamped, tie off at the appropriate hole specified by the racquet manufacturer. Remove the frame from the mounting system by releasing the racquet holddowns and loosening the mounting stands.
ADDITIONAL FEATURES

Locking the Turntable
The turntable may be locked in any position.
Rotate the lever down to lock the turntable and up to release the turntable.
PATHFINDER AWL

The machine includes the pathfinder stringing awl which creates a pathway between or around strings to make inserting a string through blocked grommets easier and quicker.

Insert the awl through the grommet hole in the same manner as for traditional awls. The pathfinder awl must be in the closed position before insertion.

Once the awl is inserted, pull the handle of the awl outward while holding the tip section in place. This leaves the outer sheath in the grommet hole. Insert the end of the string into the outer sheath.

While holding the string, slowly pull the sheath out of the grommet hole to leave the free end of the string exposed.
Tension Calibration Procedure

Set the tension to 60 lbs. as indicated by the linear scale and rotary knob. Place the string on one end of a tension calibrator into a string clamp and secure. Place string located on the other end of the calibrator into the string tensioner and apply tension. If the brake lever releases before or after 60 lbs., the tension head should be calibrated as follows.

Loosen the 1.5 mm locking set screw (A) located on the side of the latching block as shown. The set screw is used to hold the adjustment screw in place.

If the lever releases before 60 lbs., using the supplied L-shaped hex wrench, turn the adjustment screw (B) located on the left side of the latch block counter-clockwise to increase the engagement of the brake release latch with the brake lever. Repeat step 1 and adjust until the correct tension is indicated on the calibrator.

If the tension indicated in step 1 is greater than 60 lbs., turn the adjustment screw clockwise to reduce the engagement of the brake release latch with the brake lever. Repeat step 1 and adjust until the correct tension is indicated on the calibrator.
MAINTENANCE & ADJUSTMENTS

Adjusting the Tensioner Brake

After stringing many racquets, the brake of the tensioner may need to be adjusted.

With the brake lever engaged in the latch, insert the 5mm allen wrench into the bolt (A) located at the base of the brake lever. It can be accessed through the hole on the face of the tensioner cover (above the ‘GAMMA’ logo).

**Note:** The tensioner cover does not need to be removed for the adjustment. The cover has been removed in the pictures for illustration purposes.

While holding the 5mm brake lever adjustment bolt (A), loosen the hex bolt (B) located on the back side of the tensioner frame with the 4 mm allen wrench.

**Note:** The hex bolt should only be loosened and must not be completely removed.

To tighten the braking mechanism, turn the set screw (A) counter clockwise by about 1/8 turn. Re-tighten the allen screw (B) on the back side of the tensioner frame and check for brake tightness. The tensioner should move freely along the track with the brake lever engaged and should hold tension with the brake lever released. If more adjustment is needed, repeat steps above until properly adjusted.
Adjusting the String Clamp Jaw Spacing

The string clamps will need minor adjustments according to what string type, construction, and gauge you are using.

To adjust the gap (clamping pressure) between the clamp jaws, insert the string through the racquet as if you were beginning the main strings. Clamp the strings and pull tension. If the string slips through the jaws of the clamp, tighten the clamp by squeezing the clamp jaws together by hand while turning the Adjustment Knob, in the clockwise direction. If the clamp leaves impressions or damages the string, it may be excessively tight and should be adjusted by turning the Adjustment Knob counter clockwise to open the gap between the jaws.

NOTE: Due to the bearings used in the Clamp Lever the action of the Clamp Lever is very light making it easy to apply excessive clamping pressure. Clamps that are set too tight can damage the string as well as the string clamp jaws.

The clamp jaws should be cleaned periodically to be free from dirt, oil, and any string coating residue to grip properly. Knife sharpening stones are excellent for removing build-up on the diamond coated surfaces and are available.

Adjusting the Clamp Base Locking Nut

In the event the Locking Lever rotation is insufficient to ensure smooth operation of the clamp base, very minor adjustments to the Clamp Base Locking Nut can be made with the supplied 17mm socket wrench. Tighten or loosen the locking nut in very small increments to provide more clamping pressure or running clearance as needed.

Quick Action Clamp Base Removal

Quick Action clamp bases can be removed from the turntable for maintenance or cleaning by removing clamp stop located at the end of the slot in the turntable. To remove the clamp stop, remove the two screws holding the clamp stop in place from the underside of the turntable. Lift the clamp stop out of the slot, slide the clamp base to the end of the slot and lift it out. Replace the clamp base and clamp stop in reverse order.
With time and use, the clamping surfaces of your machine may become oily or dirty and result in string or clamp slippage while stringing. Periodic cleaning of the String Clamps, String Clamp Base and String Gripper is recommended. Knife sharpening stones work well for cleaning the diamond coated string clamping surfaces. Cleaning with a solvent such as isopropyl alcohol and a mild abrasive tool such as a toothbrush also works well to remove oily or greasy build up.

**2pt Hold Down Clamp Adjustment**

The 2pt hold down clamps have been adjusted at the factory. However, depending on the racquet frame thickness, the hold down clamp may require adjustment. Use a 3 mm hex wrench and turn the set screw clockwise to reduce the hold down clamp pressure and counter-clockwise to increase the hold down clamp pressure.

Note: To avoid potential damage to the racquet only make small adjustments at a time by slightly turning the set screw by no more than 1/4 of a turn. Test the hold down lever to insure the racquet is held snugly but without applying excessive force to the lever.

Periodically clean the hold down clamp pin using rubbing alcohol to remove residue or dirt, that may build up over time.

**TROUBLESHOOTING TIPS**

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**CARE & CLEANING**

With time and use, the clamping surfaces of your machine may become oily or dirty and result in string or clamp slippage while stringing. Periodic cleaning of the String Clamps, String Clamp Base and String Gripper is recommended. Knife sharpening stones work well for cleaning the diamond coated string clamping surfaces. Cleaning with a solvent such as isopropyl alcohol and a mild abrasive tool such as a toothbrush also works well to remove oily or greasy build up.
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