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 Six Point “Quick Mount” Racquet Mounting System- Accommodates All Racquets
- Professional “Quick Action” Dual Action, Rotating, Metal Fixed String Clamps w/ 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
- (1) Upper Column Support Post
- (3) Short Legs w/ Adjustment Feet
- (1) Long Leg w/ Adjustment Foot
- (1) Bellows Set
- (1) Tool Tray w/ Pad
- (1) Tensioner Assembly
- (1) Tensioner Track
- (4) M8 x 25 Flat Head Screws
- (4) M8 x 30 Cap Screws
- (1) Tool Kit (contains side cutter, bent nose pliers & needle nose pliers)
- (1) Straight Stringers Awl & (1) Pathfinder Specialty Awl
- (1) Tools for assembly and maintenance

Contents of Mounting System Carton (MMU2-63)
- (1) Turntable Assembly w/String Clamp Bases and Mounting Stands w/ Frame Support Slide, Side Supports and Adapters
- (2) String Clamps
- (1) Package of Spare plastic adapters for mounting system supports
- (1) 17mm Socket wrench
- (1) 6mm T-Handle Allen wrench
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.
ASSEMBLY INSTRUCTIONS

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**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.

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**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.

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**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.
Adjusting the Frame Mounting Stands

Loosen the lock bolts of the frame mounting stands and space them apart with the frame support slides separated by the approximate length of the racquet head. Although it is not required, it is good practice to center the mounting stands on the turntable. Lock one of the stands in position by tightening the lock bolt and position the other stand until the frame support slide is positioned near the inside surface of the racquet frame. Securely tighten the lock bolt of the second mounting stand.

**Caution:** To avoid racquet damage, the frame supports should not contact the racquet prior to locking down the mounting stands.

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.

Tightening the Frame Supports

Tighten the frame support slides by turning the adjustment knob clockwise until snug against the racquet frame and slight resistance is felt.

**Caution:** Overtightening the center supports will stretch the head of the racquet and could cause racquet damage.
MOUNTING THE FRAME

Adjusting the Frame Shoulder Supports

Being sure the shoulder supports are free to swivel in their mountings, simultaneously rotate the shoulder support adjustment knobs clockwise until both shoulder supports gently and squarely contact the frame.

Securing the Frame

Lock the shoulder supports in position by turning the knob at the base clockwise.

Repeat the adjustment procedure for the remaining support post.

Re-tighten all of the frame supports in the same order as before.

Caution: Do not overtighten any of the supports as racquet damage may occur.

The supports should be tightened to the point where the racquet frame will not move in the mounting system when the handle is grasped and attempts are made to move it. Should any supports lose contact with the frame while stringing, they should be re-tightened.
**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.*

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**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 counterclockwise.

The locking lever should be tightened enough to prevent clamp base slippage on the turntable when the desired tension is placed on the string.

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**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.
STRINGING THE FRAME

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.
Handy tip: The tear drop shaped holes towards the back of the shoulder supports are handy for holding the loose end of the string while tensioning the string. Simply insert the loose end into the tear drop shaped holes and slide the string toward the point of the hole.

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 holes as per racquet manufacturers specifications.

Clamping the First Main String
Secure the tensioned main string using the remaining fixed clamp. Repeat the procedure for all of the remaining main strings and tie off at the appropriate holes following the racquet manufacturers specifications.

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 loosening the shoulder supports and frame supports.
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.

Badminton Shoulder Support Protection Pad Installation
Slide the badminton shoulder support cover over the shoulder supports. There is no need to remove the tennis shoulder supports.

Note: An optional badminton frame support for the head of the racquet is available.
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.
MAINTENANCE & ADJUSTMENT

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.
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.
## 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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