

GAMMA

PROGRESSION

602

STRINGING MACHINE



OWNER'S MANUAL

Issue 1- April 2000



PROGRESSION 602

STRINGING MACHINE

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LIMITED WARRANTY

GAMMA SPORTS ("GAMMA") warrants to the original purchaser that the GAMMA PROGRESSION 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 (excluding electrical parts and string clamps), and for a period of one (1) year from the date of purchase for all electrical parts and 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.

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. GAMMA will not be responsible for machines which are not sent in the original undamaged packaging.

FEATURES



- ❖ **Drop Weight Tensioner w/ 8lb. to 90lb. range and Permanently Engraved Weight Scale**
- ❖ **Professional Six Point "Quick Mount" Racquet Mounting System - Accomodates All Racquets Without Adapters**
- ❖ **Patented Parallel Jaw Rotating Ratchet Gripper w/ Diamond Dust Coated Gripping Surfaces - U.S. Patent #4,491,322**
- ❖ **Two Composite Floating Clamps w/ Thumb Screw Adjustment**
- ❖ **Durable Polystyrene Base Cover w/ Convenient Padded Tool Tray**
- ❖ **Strong, Light Weight, Powder Coated Molded Aluminum Construction**
- ❖ **Easily Upgradeable to Progression 600FC w/ Professional Dual Action Fixed String Clamps**

ASSEMBLY INSTRUCTIONS



Engaging the Drop Weight Bar Stop

The stringing machine is shipped with the drop weight bar in the horizontal position. To prevent racquet damage during stringing, the bar stop must be engaged.

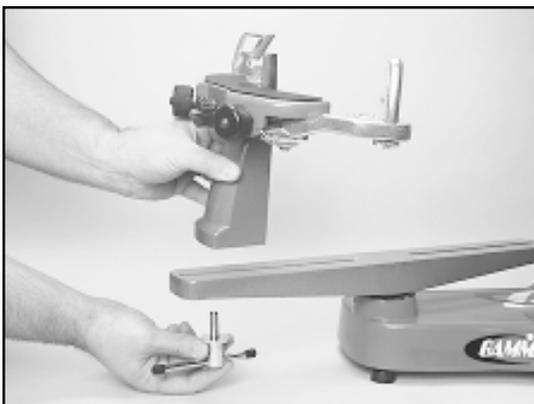
Remove the machine base from the shipping carton being careful to avoid lifting by the plastic cover.

Hold the drop weight bar in the vertical position as shown while turning the stop screw clockwise with the supplied 5mm hex wrench.



Installing the Turntable

Remove the turntable from the foam packing of the shipping carton. Insert the center post of the turntable into the bushing of the stringing machine base.



Installing the Frame Support Posts

The Progression 602 support post assemblies are precision aligned at the factory and are marked for proper installation on the turntable.

Install the support post with the dot on its base to an identical dot on the turntable. Align the threaded hole in the bottom of the frame support post with the slot in the turntable. Screw the lever lock bolt with washer into the bottom of the support post and tighten gently. Position the washer the rounded side toward the turntable.

Repeat procedure on the opposite side of the turntable

MOUNTING THE FRAME



Adjusting the Frame Support Posts

Place the racquet frame over the center posts and onto the frame support. Loosen the lever lock bolt on one support post. Slide the post outward until the center support of the racquet support slide is positioned near the inside surface of the racquet frame. Securely tighten the lever lock bolt.

Adjust the opposite post using the same procedure.

Caution: To avoid racquet damage, the center posts should not contact the racquet prior to fixing the support posts.



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.

Tighten the Frame Support Slides at the head and throat of the racquet until they gently contact the frame between the two center main string grommets.



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.

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

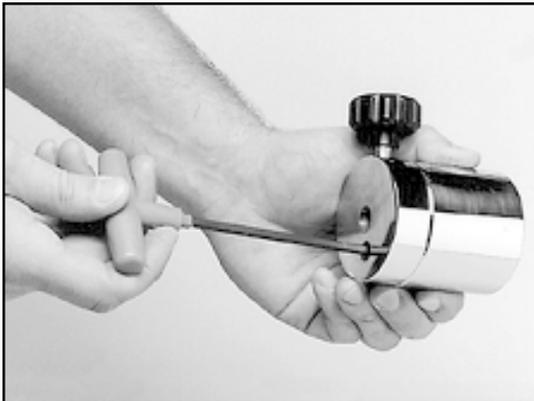
The supports should be tightened to the point where the racquet frame will not move in the mounting system when the handle is grasped and attempts are made to move it. Should any supports lose contact with the frame while stringing, they should be re-tightened.

STRINGING THE FRAME



Setting Tension

To set the stringing tension, loosen the locking knob on the side of the drop weight. Slide the weight in the appropriate direction until the face **closest** to the string gripper is indexed with the desired tension mark on the tension bar.



The drop weight is of a two piece design. When assembled, it will accommodate tensions from 20 lbs. to 90 lbs. For tensions from 8 to 20 lbs., remove the 5mm bolt on the face of the drop weight, and use the smaller portion of the weight as described above.

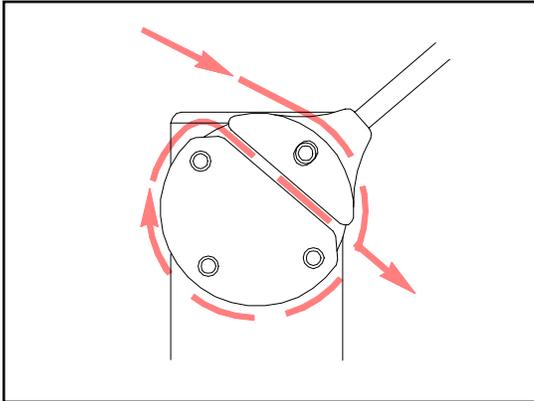
Note: Tensions above 77lbs. require removal of the drop weight bar endcap.



Clamping the First Main String

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. Using a floating clamp, secure the center and the adjacent string to each other on the inside of the frame.

STRINGING THE FRAME



Gripping the String

While holding the tension bar slightly above horizontal, wrap the free string clockwise around the gripper drum once and position between the gripper jaw.

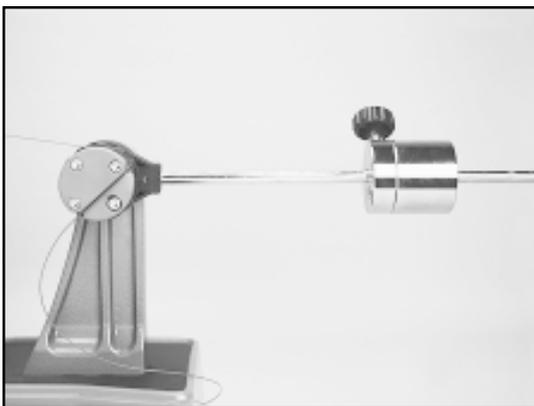
Gently turn the gripper clockwise while squeezing the jaws together until all slack in the string is removed.

Note: For proper operation, the string gripper jaw must be in the position shown. The tension in the string provides the clamping force to the jaws.



Pulling Tension

While securely holding the string gripper drum with your hand, lift the tension bar above horizontal and gently lower the bar under its own weight. If the tension bar drops below horizontal, repeat the above action until the bar comes to rest parallel to the racquet.



When the correct tension is attained, the drop weight bar will rest horizontally as shown. For accurate tensioning, it must be lowered and come to rest at horizontal without assistance. Manually forcing the tension bar to the horizontal position will greatly increase the string tension and may result in racquet damage.

If the tension bar comes to rest above horizontal, release the string by lifting the bar and re-pull the string.

STRINGING THE FRAME



Clamping the String

Clamp the tensioned string to the next adjacent string using the second string clamp. Release the string from the gripper by raising the tension arm.

Repeat the procedure for all of the remaining main strings and tie off following the racquet manufacturers recommendations.



Starting the Cross Strings

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.



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

Once the final cross string is tensioned and clamped, tie off at the appropriate hole specified by the racquet manufacturer.

PATHFINDER AWL



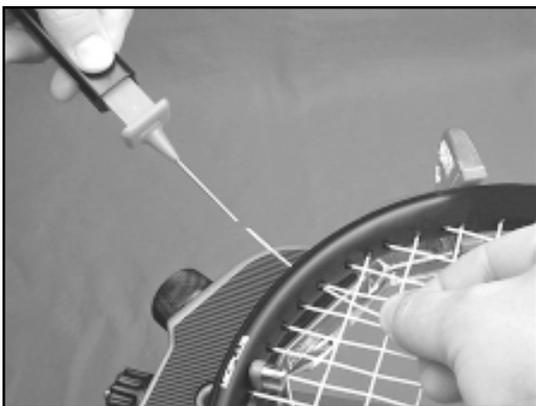
The Gamma 602 includes the new Pathfinder stringing awl which creates a pathway between or around strings to make inserting a string through tight grommets easier and quicker.

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, leaving the outer sheath in the grommet hole.

Insert the end of the string into the center of the sheath.



While holding pressure on the string, slowly pull the sheath out of the grommet hole to leave the end of the string exposed.

MAINTENANCE

Your GAMMA Progression 602 stringing machine is adjusted for optimum performance at the factory and needs no further adjustments before use. After extensive use however, the machine may need minor adjustments as follows :

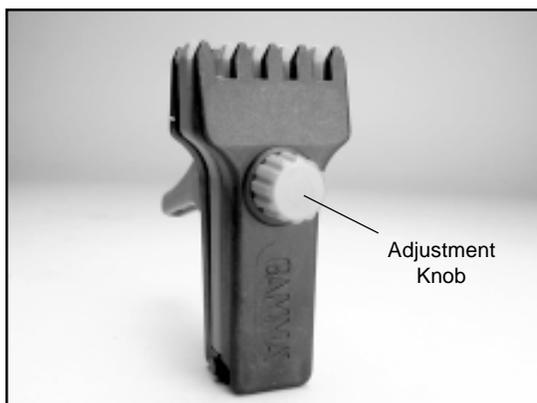


Adjusting the Turntable Bushings

There are two adjustment points on the machine base. One is located beneath the polystyrene base cover while the other is accessed from below the machine.

Using the supplied 3mm hex wrench, tighten both set screws slightly until the turntable rotates smoothly without excessive free play.

Repeat procedure until final adjustment is reached.



Adjusting the Clamps

The clamps provided with your stringing machine will need minor adjustments according to what string type, construction, and gauge you are using.

To adjust, route 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 turning the adjustment knob opposite of the handle, in the clockwise direction. If the clamp leaves impressions or damages the string, it is too tight and must be adjusted by turning the adjustment knob counterclockwise.

The clamp jaws must be clean and free from dirt, oil, and any string coating for them to grip properly. Clean the clamp jaws with alcohol.

Note: The string clamps supplied with your stringing machine can accommodate tight string patterns such as badminton. Depending on the string pattern, the clamp will spread the strings slightly which will not compromise the quality of the string job.

EXPLODED PARTS VIEW

