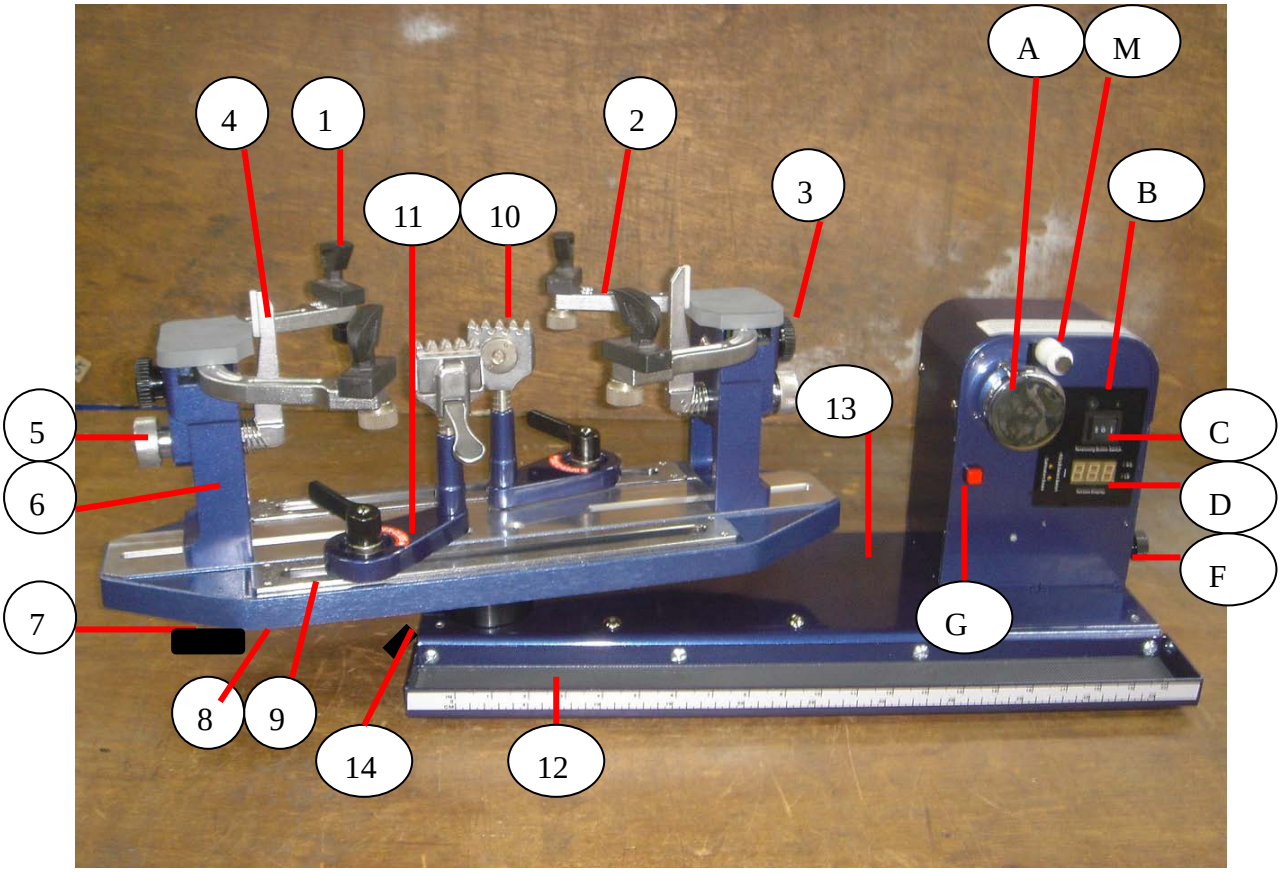
8700

STRINGING MACHINE

USER'S MANUAL

1. ANATOMY



I.	Machine Body
1.	Side Support
2.	Side Support Arm
3.	Side Support Arm Adjustment Knob
4.	I-Adpater Center Support
5.	Center Support Adjustment Knob
6.	Mounting Stock
7.	Mounting Stock Locking Knob
8.	Turntable
9.	Rail/Track for Turntable
10.	Swivel Clamp
11.	Swivel Clamp Holder
12.	Tool Tray
13.	Base
14.	Brake

II.	Electronic Parts
A.	String Gripper (See Page 4 in Details)
B.	Indicator Lights (See Page 4 in Details)
C.	Tension Switch (See Page 4 in Details)
D.	L.E.D. Tension Display (See Page 4 in Details)
E.	KG/LB Select Switch (See Page 4 in Details)
F.	Tension Adjustment Knob (See Page 4 in Details)
G.	Gripper Reversing Switch (See Page 4 in Details)
H.	A/C Power Cord Socket (See Page 5 in Details)
I.	2 Amp Fuse Holder (See Page 5 in Details)
J.	Lighted Power Switch (See Page 5 in Details)
L.	Calibration Screw (See Page 5 in Details)
M.	String Guide (See Page 4 in Details)
N.	Calibration Screw (Manufacturer Setting Only) (See Page 4 in Details)

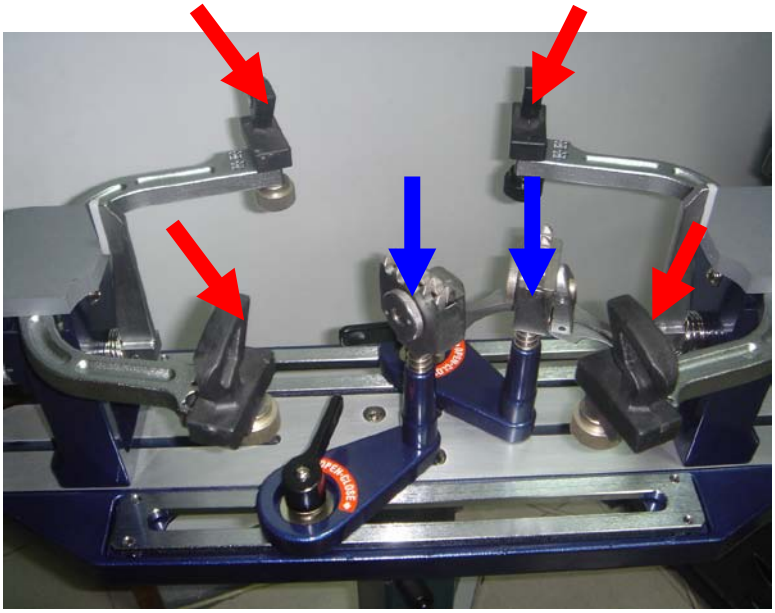
2. UNPAKCING INSPECTION

Your machine is shipped in one carton and protected internally by foam inserts. Once the carton is opened, remove all inserts and check to be sure that all parts are present and accounted for.

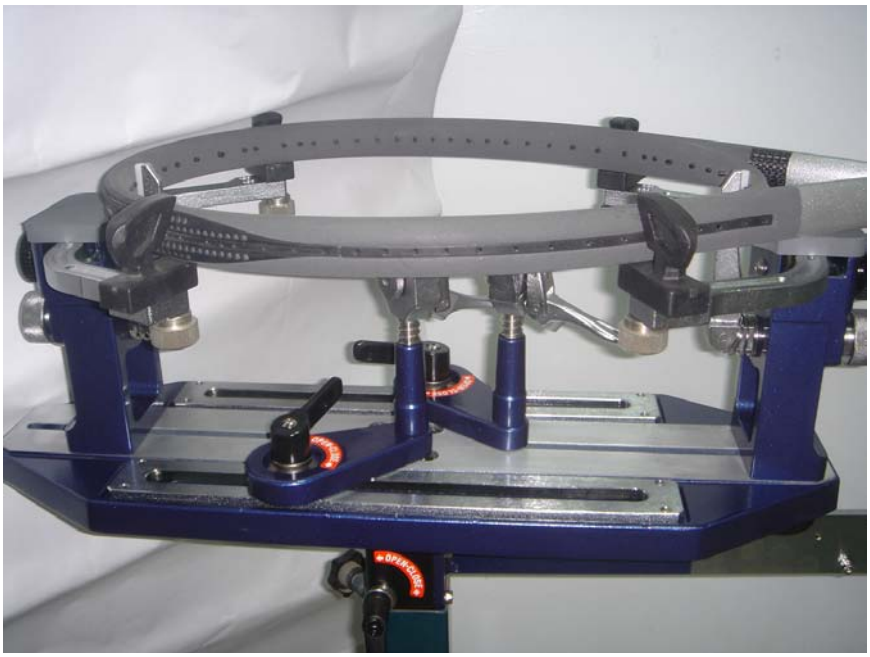
(1). 1 Machine Assemble
(2). 2 Swivel Clamps
(3). 4 Side Supports
(4). 1 Allen Wrench
(5). 1 A/C Power Cord

3. INSTALLATION PROCEDURE

Insert the string clamps into the clamp bases.
Mount the each side support in the proper hole on the side support arms secure it by tightening its knob beneath.



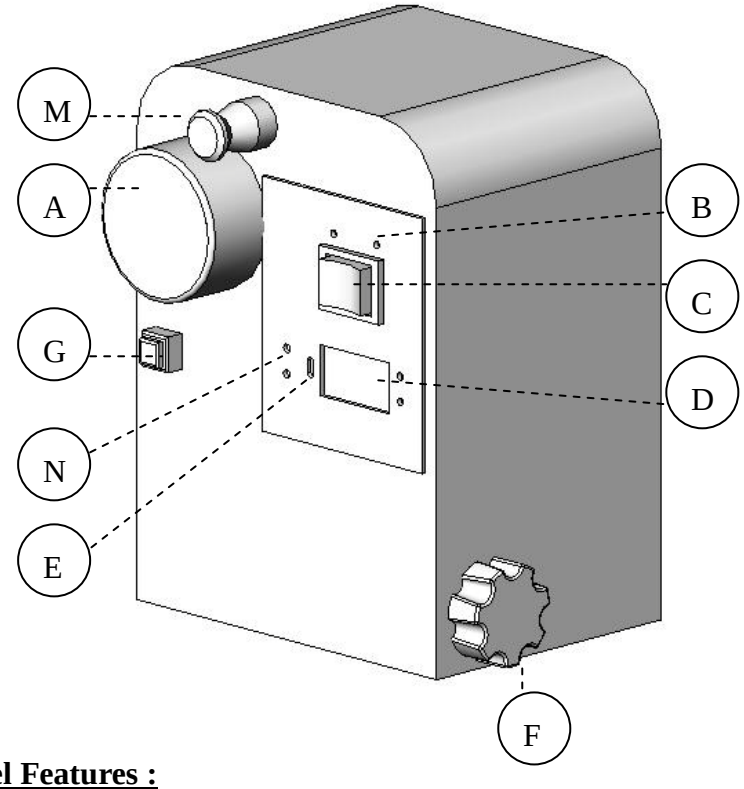
4. MOUNTING THE RACQUET FRAME



1. Begin by turning the black (side support adjustment) and chromed (center support adjustment) knobs on the two mounting stocks counterclockwise to open the side support arms and reduce the spread of the vertical supports.
2. Spread the mounting stocks so that the vertical centers supports fit within the racquet head without touching it. The stocks are loosened from below the turntable.
3. Locate the center points of the racquet at the head and throat and place them next to the vertical supports on the mounting stocks. The turntable indicate which stock the head and throat go on.
4. Turn the black side support arm adjustment knobs on each mounting stocks clockwise to bring the side supports in contact with the racquet at all four points. Note that the racquet levels and centers itself as the side supports cradle it. Do not over tighten.
5. Now turn the chromed knob clockwise to tighten the vertical supports. Ensure that the supports fit between the grommets in the center of the racquet. Do not over tighten or the racquet may be difficult to remove at the end of the string job.

An exclusive W-adapter is installed on your 8500 to spread stringing loads over a wider area of the racquet at the head and throat. In cases where the W-adapter doesn't fit between the grommets of tennis racquet frame, it can be replaced with a traditional straight support (I-adapter).

5. TENSION CONTROL :

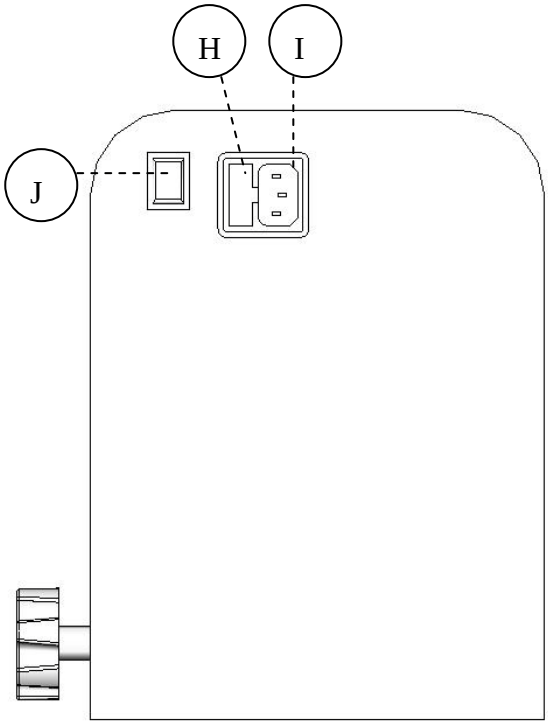


Front Panel Features :

A. String Gripper
B. Indicator Lights
C. Tension Switch
D. L.E.D. Tension Display
E. KG/LB Select Switch
F. Tension Adjustment Switch
G. Gripper Reversing Switch
M. String Guide
N. Calibrator Screw (Manufacturer Setting Only)

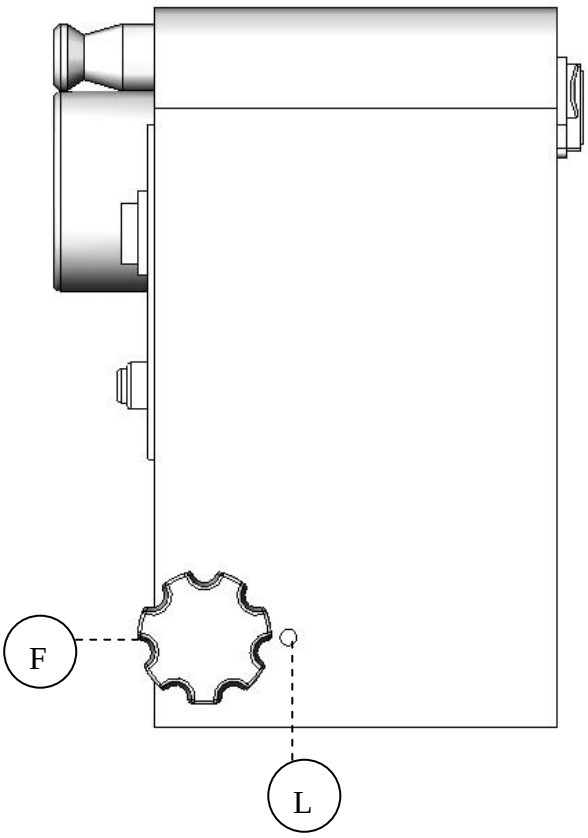
Rear Panel Features :

H. A/C Power Cord Socket
I. 2 Amp Fuse Holder
J. Power Switch



Side Panel Features :

F. Tension Adjustment Knob
L. Calibration Screw



Step 1:
To install the power cord, insert the female end of the power cord into the Power Cord Socket located on the rear of the tensioner and plug the male end into a grounded power outlet.



Step 2:
Turn the main power switch on by pressing it in I direction. (O direction is to turn the tensioner off.) and the red power indicator light will light up on the panel. Voltage between 220V and 240V (50 Hz to 60 Hz) is acceptable. NOTE: A 2 amp spare fuse is located in the power cord receptacle.



Step 3:
Select the KG unit by pushing switch of KG/LB up and the KG indicator light will light up.



Step 4:
Select the LB unit by pushing switch of KG/LB down and the LB indicator light will light up.



Step 5:
Set the desired tension (such as 20 lbs) by rotating the tension knob – clockwise to decrease the tension and counterclockwise to increase the tension.



Step 6:
Pass the string over the top of the string gripper bar and wrap the string clockwise around the string gripper drum and position of the string between the string gripper jaws.



Step 7:
Press the tension switch toward to right direction and string gripper will rotate.



Step 8:
After the set tension is attained, the gripper will stop rotation and the green indicator light will light up.



Step 9: To release the string after clamping, press the tension switch to the left direction. 	**Step 10:** If the string gripper does not release the string after press the tension switch toward to the left direction, depress the red gripper reserving switch once to release the string. 

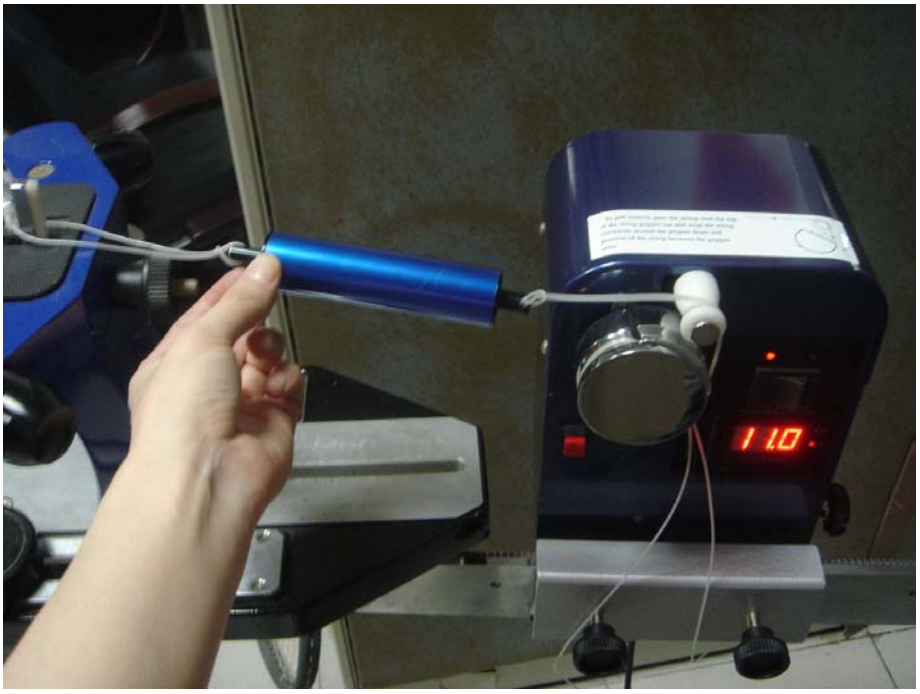
6. Tension Calibration:

Step 1:
Use a calibrator (an electronic calibrator is highly recommended), apply tension as if stringing a tennis racquet.

(electronic calibrator)



(manual calibrator)



Step 2:
Set the tension at 5 KG (or 11 LB). Press the tension switch to the right direction to pull the string and write the machine's tension on a paper first. Then, release the string by pressing the tension switch to the left direction and go for next tension checking.





Step 3:
Set the tension at 10 KG (or 22 LB). Press the tension switch to the right direction to pull the string and write the machine's tension on a paper first. Then, release the string by pressing the tension switch to the left direction and go for next tension checking.





Step 4:
Set the tension at 15 KG (or 33 LB). Press the tension switch to the right direction to pull the string and write the machine's tension on a paper first. Then, release the string by pressing the tension switch to the left direction and go for next tension checking.





Step 5:
Set the tension at 20 KG (or 44 LB). Press the tension switch to the right direction to pull the string and write the machine's tension on a paper first. Then, release the string by pressing the tension switch to the left direction and go for next tension checking.





Step 6:
Set the tension at 25 KG (or 55 LB). Press the tension switch to the right direction to pull the string and write the machine's tension on a paper first. Then, release the string by pressing the tension switch to the left direction and go for next tension checking.





Step 7:
Set the tension at 30 KG (or 66 LB). Press the tension switch to the right direction to pull the string and write the machine's tension on a paper first. Then, release the string by pressing the tension switch to the left direction and go for next tension checking.





I. Simple Tension Calibration:

Read the tensions you have written on the paper, if your electronic tensioner is pulling tension inaccurately - all over or lower than the tension setting, it may need to be adjusted by rotating the Calibration Screw located on the side of the tensioner.

Step 1:
Set the tension at 5 KG (or 11 LB) and use a calibrator and press the tension switch to pull its string. Test the machine's tension is identical to the calibrator's tension or not.

Step 2:
Remember the tension shown on the calibrator.
And, then release the string by pressing the tension switch.

Step 3:
If the calibrator's tension reading is higher than the machine's, turn the Calibration Screw (L) clockwise by 3 mm wrench to decrease the tension. (Oppositely, if the calibrator's tension is lower than the machine's, turn the Calibration Screw (L) counterclockwise to increase the tension.). After adjustment, press the tension switch again and then check if the machine's tension is identical to the calibrator's tension or not. Repeat this procedure until the correct tension - 5 KG (or 11 LB) is attained on the calibrator and then go for the next calibration 10 KG (or 22 LB).

II. Professional Tension Calibration :

If your electronic tensioner is pulling tension inaccurately – sometimes over or sometimes lower than the tension setting, it may need to be adjusted by rotating the Calibrator Screw on the front of the tensioner.

Step 1:
Use a calibrator, apply tension as if stringing a racquet.

Step 2:
Set the tension at 5 KG, test the machine's tension is identical to the calibrator's tension or not.

If the tension is too high or low, release the string by pressing the black switch and then adjust the LO screw. Press the black switch again and then check if the machine's tension is identical to the calibrator's tension or not. Repeat this procedure until the correct tension is attained.

Step 3:
Set the tension at 35 KG, test the machine's tension is identical to the calibrator's tension or not.

If the tension is too high or low, release the string by pressing the black switch and then adjust the HI screw. Press the black switch again and then check if the machine's tension is identical to the calibrator's tension or not. Repeat this procedure until the correct tension is attained.

Step 4:
Test the rested tensions by setting the tension at 10 KG, 15 KG, 20 KG, 25KG, 30 KG gradually and test the machine's tension is identical to the calibrator's tension or not.

If the tension is too high or low, release the string by pressing the black switch and then adjust the LO screw (for the tension lower than 15 KG) or HI screw (for the tension higher than 15 KG). Press the black switch again and then check if the machine's tension is identical to the calibrator's tension or not. Repeat this procedure until the correct tension is attained.

APPENDIX A

ADJUST STRING CLAMP TO THE CORRECT HOLDING PRESSURE

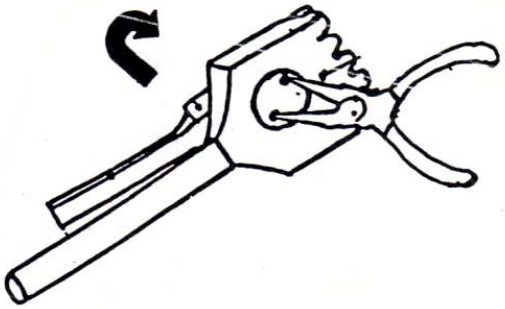
* If gripper of the string clamp is over tension, lift the clamp handle up and turn the round adjustment of the string clamp counterclockwise to the correct tension by needle nose pliers or fingers adjusting directly.

*If gripper of the string clamp doesn't hold string well, lift the clamp handle up and turn the round adjustment of the string clamp clockwise to the correct tension by needle nose pliers or fingers adjusting directly.

Needle Nose Pliers Adjustment

1 Lift up the handle

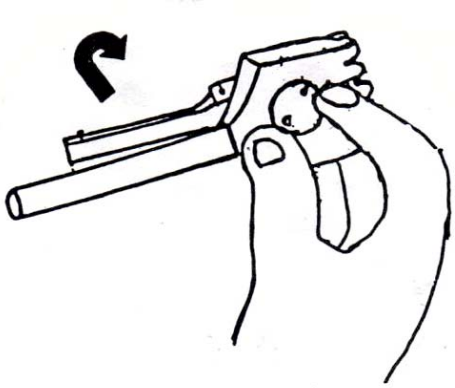
2 Rotate the adjustment



Fingers Adjustment

1 Lift up the handle

2 Rotate the adjustment



APPENDIX B

ADJUST STRING CLAMP TO THE CORRECT HOLDING PRESSURE

*****Lift up the base handle and turn it counterclockwise.
Lower the handle and turn it clockwise.
Repeat the process until the base is locked in place.

*****The handle position could be at any desired position.
To adjust it, lift up the base handle, turn it to the desired position,
then lower the handle.

