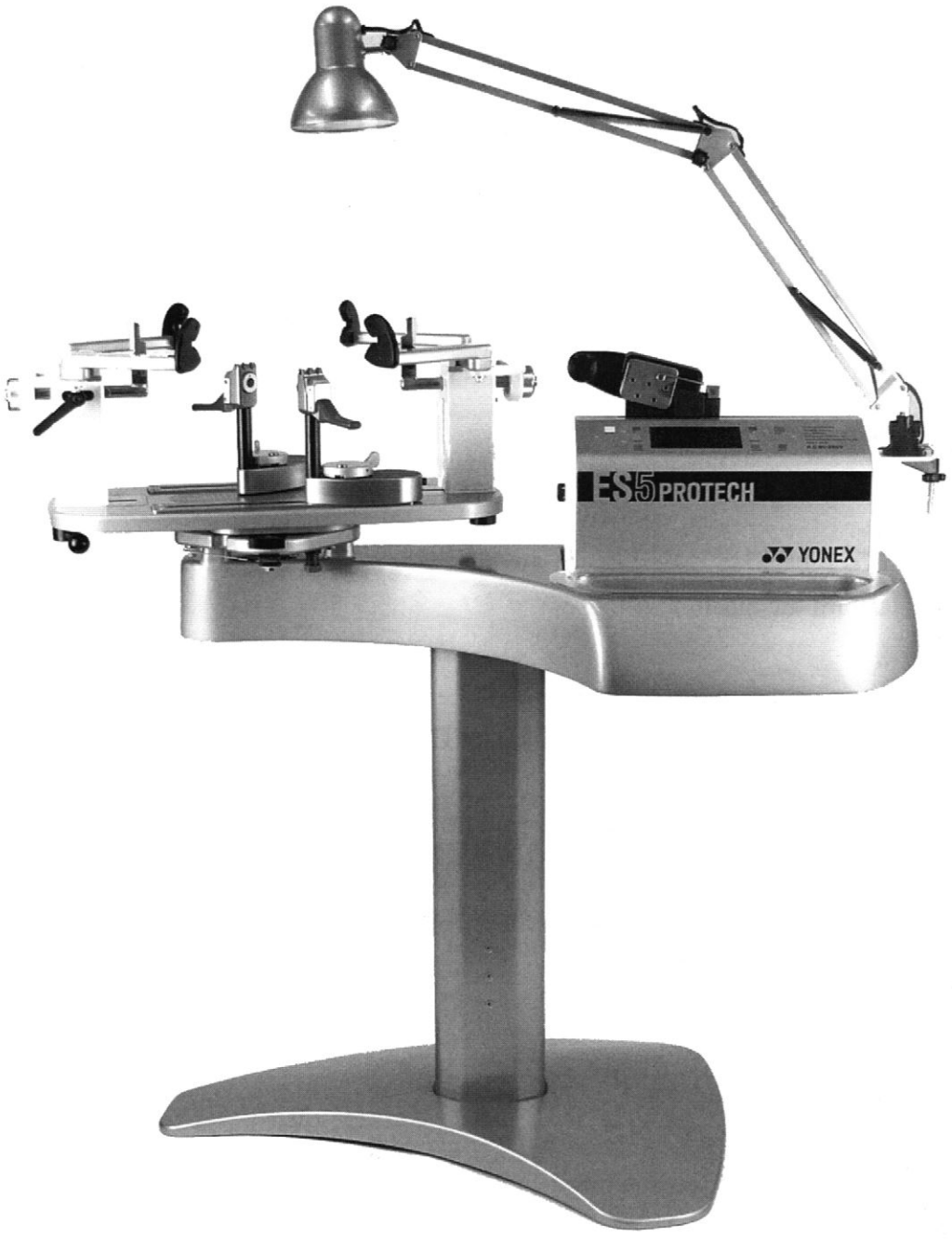
ES5PROTECH

Introduction Manual Ver.1.04e



Options and articles not for sale are included in the photo.

YONEX®

ES5PROTECH Ver.1.04e 100914

Thank you for purchasing Yonex's ES5PROTECH Computer Stringing Machine.
The number of this machine is Mfg.No.202208. Please include this in case of enquiry.

Before use Read this instruction manual carefully before using the machine. Always have it nearby and refer to it in case of uncertainties.

Caution!

Supervision Assign a supervisor to supervise this machine and make sure that children and people who are unaware of the handling procedures keep away from it.

Caution!

Storage Avoid using this machine in extremely humid or dusty areas. After use, carefully clean the touched areas.

Caution! Do NOT use this machine for p
urposes other than stringing rackets.

Keep stored

Keep packing materials for a while; you might need them in the event of necessity to return the machine.

Table of Contents

Safety Use

Read this instruction manual carefully for safe and correct use of this machine.
Keep the manual after reading it.

WARNING!	The content of this sign indicates possibilities of severe injuries or death if the instructions are ignored and if the machine is handled incorrectly.
NOTICE!	The content of this sign indicates possibilities of injuries or physical damage if the instructions are ignored and if the machine is handled incorrectly.

WARNING!

1. The instructions below MUST be followed to prevent fire, electric shock, and burns.
   - DO NOT insert, pull out, or handle the plug with wet hands.
   - In case of trouble such as the power cord or plug being hot, smelling burnt, or producing smoke, immediately unplug and contact our sales department nearest you.

2. Be careful not to place the machine in an area where children can touch, accidentally run into it causing it to fall.

NOTICE!

1. DO NOT disassemble or remodel the machine body.
   This may cause electric shock, injuries as well as physical damage.

2. Using or leaving unattended over a prolonged length of time in high temperature areas such as under direct sunlight, areas near water or highly humid, as well as sandy and dusty areas will cause damage.

3. High impact such as striking the machine with a racket or tool will cause damage.

4. When moving the machine, be careful not to damage the floor. Depending on floor conditions, it is recommended to put down a mat to prevent slipping or scratching.

Parts List

Reference Symbol	Description	Part Number PT-ESXXX	Functions and Directions of Use
A	Main Post	PT-ES601	Vertical column of the stand
B	Base	PT-ES602	Stand's metal board which is in contact with the floor
D	Work Table	PT-ES603	Work table that is mounted on the stand. The tension head and turntable are mounted on top of it.
E	Turntable Set	PT-ES604	Entire rotation platform onto which the racket is mounted
F	Tension Head	PT-ES605	Entire machine part used to pulls the string
G1	Cap Bolt M8 × 40	PT-ES550	Secures Main Post onto the base (4 bolts)
G2	Cap Bolt M6 × 18	PT-ES651	Used for the work table (3 bolts)
G3	Cap Bolt M6 × 45	PT-ES652	Used for the work table (7 bolts)
H	Knob Bolt M12	PT-ES506	Loosened when adjusting the height of the elevator
H1	Type H Attachment for Tennis	PT-ES545	(Optional) Refer to Figure 7 on page 6
H2	Type H Attachment for Badminton	PT-ES544	(Optional) Refer to Figure 10 on page 7
I	Brake Lever	PT-ES620	Used when stopping the rotation of the turntable
J	Drum Holder	PT-ES619	Board with the drum behind the string chuck.
K	Foot Switch	PT-ES548	(Optional) Same function as the (start) switch of the tension head. Can be used alternately
L	Type L Power Cord	PT-ES547	Power cord of the tension head
M	Billiard Securing Lever	PT-ES513	One on each side of the post. Angle of the handle changes when rotating while pulled
N	Arm Control Knob	PT-ES514	Used to move the arm and billiard by rotating or moving it horizontally
N1	Billiard Cap	PT-ES660	Cap nut to have the end of the billiard caped.
O	Common Billiard	PT-ES515	Keeps the racket vertically steady
P	Support Arm	PT-ES516	4 Arms sticking out from both sides of the post to keep the racket steady
R	String Chuck	PT-ES518	Part of the tension head that grips the string
S	Soft Break		Used to slow down the rotation of the turntable
T4	Stringer's Kit	AC617	Tool used for stringing
T5	Hexagonal Wrench Set	PT-ES649	Set of a hexagonal driver with clamp diameters of 5 mm and 4 hexagonal wrenches with clamp diameters of 6, 5, 4, and 3 mm.
T7	Height Adjustment Lever		Lever to release the fixed position when the height of the main post is changed.
T8	Angle Adjustment Lever		Lever to release the fixed position when the angle of the work table is changed.
T9	Post Securing Lever		Secures the position of the post on the turn table.

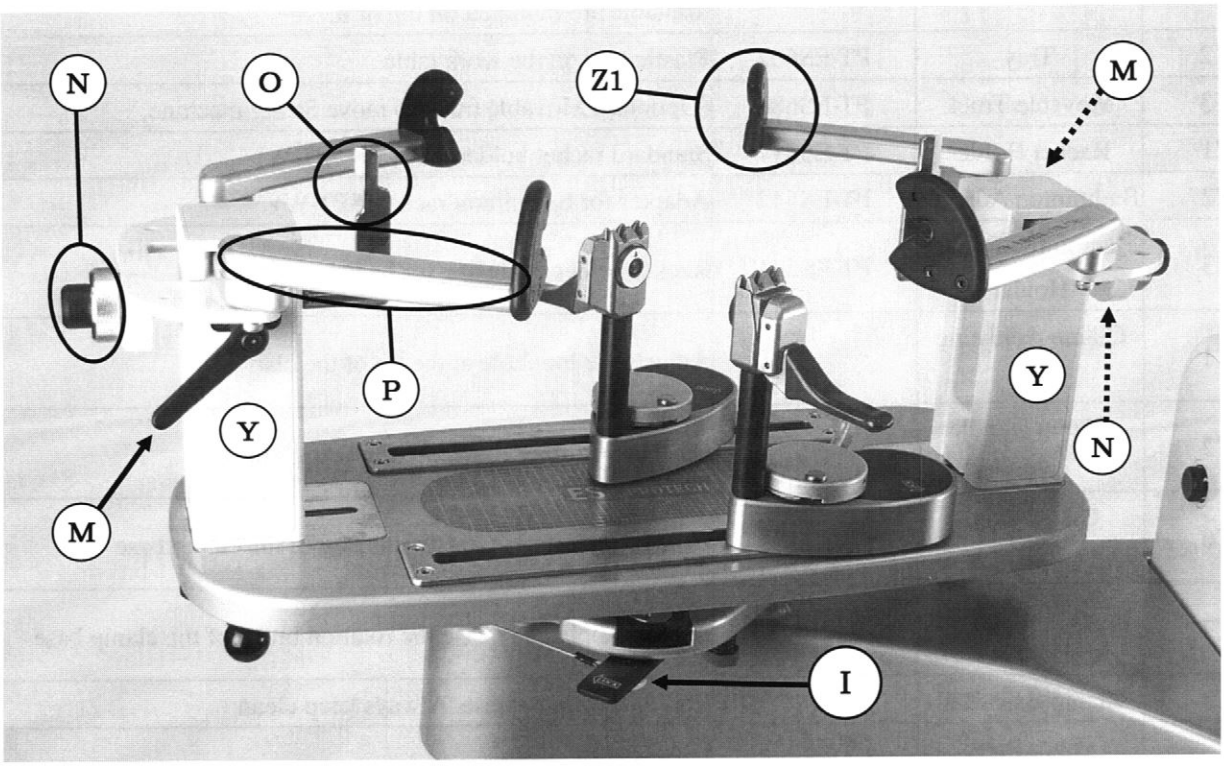
V1	Tennis Clamp with 3 nails	PT-ES625	String Clamp (5PT-T) (5PT-W)
V2	Badminton Clamp with 4 nails	PT-ES626	Clamp exclusive for Badminton (5PT-B) (5PT-W)
W1	Oversize Frame Adapter-15	PT-ES537	(Optional) 15mm covering-type adapter
W2	Oversize Frame Adapter-25	PT-ES538	(Optional) 25 mm inserting-type adapter
X	Billiard Attachment	PT-ES539	Plastic part at the tip of the billiard
Y1	Lighting Bracket	PT-ES661	(Optional) Bracket for luminaire installation. The tension head and turntable are mounted on top of it.
Y2	Tray	PT-ES662	Plastic tray on the work table
Y3	Movable Truck	PT-ES684	(Optional) Movable truck to move String machine.
Z1	Racket Holder	PT-ES517	Standard racket holder (5PT-T) (5PT-W)
Z2	Badminton Adapter	PT-ES542	Adapter for badminton racket (5PT-W)
Z3	Badminton Racket Holder	PT-ES541	Racket holder exclusive for badminton (5PT-B)
C1	Clamp Adjusting Nut		Adjusts the loophole at the tip of the clamp
C2	Clamp Handle Assy		Used to secure or to release the string
C6	Clamp Base Adjusting Screw		Adjusts the rotation brake intensity of the clamp base
C7	Clamp Base Handle		Used to apply or release the rotation brake of the clamp base
C8	Clamp Base Rail		Rail of the clamp base. Always keep clean
	Other Parts	PT-ES553	Other parts

(5PT-W): Abbreviation of ES5PROTECH-W for tennis/badminton
(5PT-T): Abbreviation of ES5PROTECH-T for tennis
(5PT-B): Abbreviation of ES5PROTECH-B for badminton

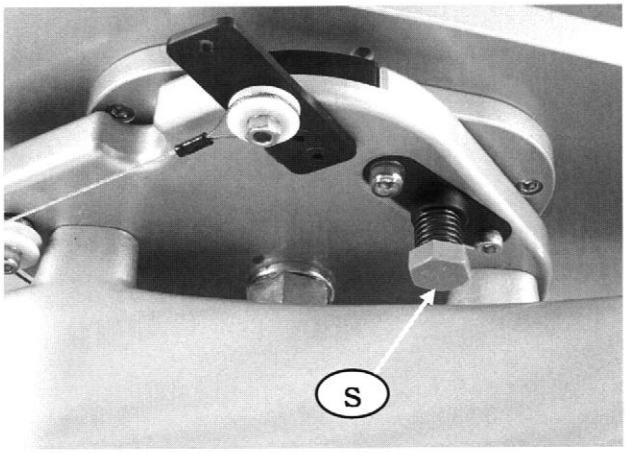
Mounting the Racket

Verifying movement of arms

1. Loosen the clamp levers (M) located on each side of the post (Y).
2. Pull the arm control knob (N) without rotating it. The support arms (P) on each side will open at the same time as the billiard (O) is being pulled. The movement is reversed if the knob is pushed inwards.
3. Now tighten the clamp lever (M) before rotating the arm control knob (N). If rotated clockwise, the support arms (P) close, and if rotated counter clockwise, the support arms open.



[FIGURE4]

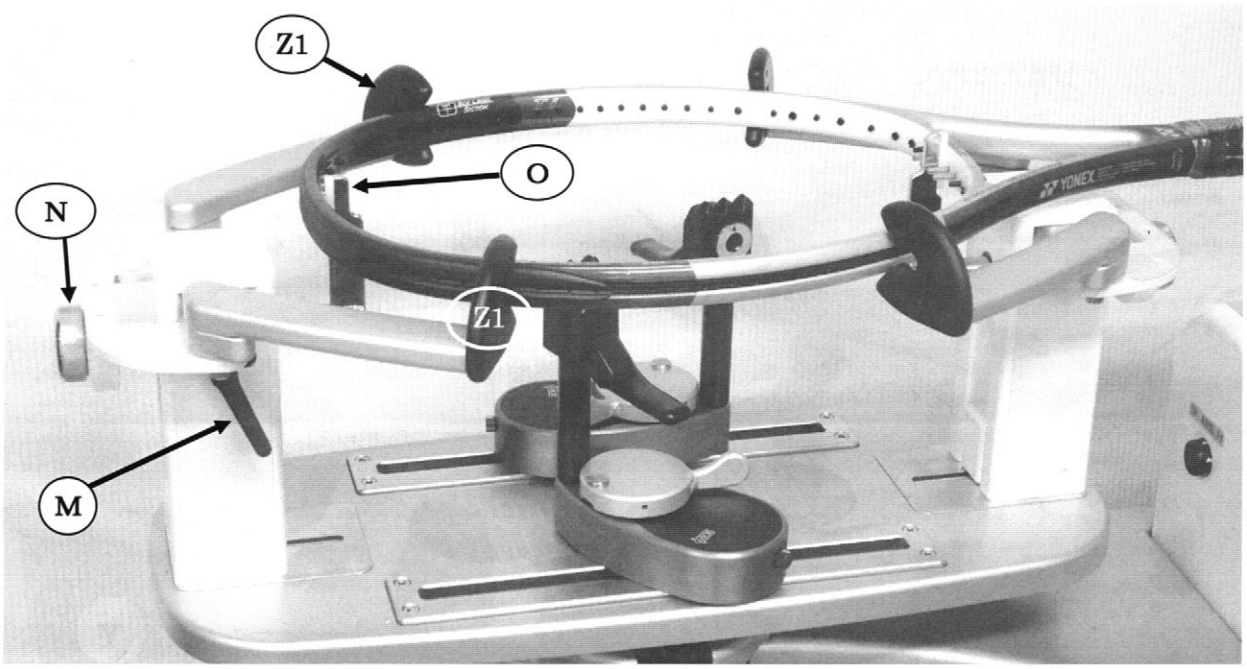


[FIGURE5]

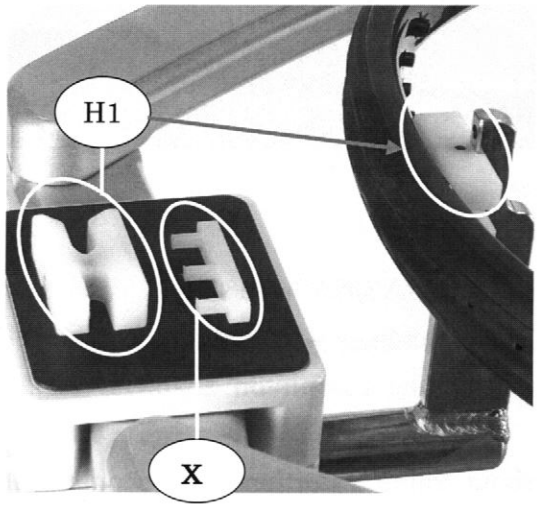
4. When temporarily stopping the rotation of the turntable, slide the brake lever (I) towards the left. (See Figure 4)
   If you wish to slow down the rotation, adjust with the brake knob (S). A brake rubber is attached at the tip of the brake knob. When using the brake, check the wearing condition from time to time. (See Figure 5)

Securing the racket frame

5. Loosen both clamp levers (M) on the sides of the post.
6. Hold the frame with one hand, then pull and rotate the arm control knob (N) to hold the top of the racket into position using the billiard (O) and the racket holders (Z1) attached at the edge of the support arms. Do the same to hold the racket's throat into position.
7. Once all 6 points support both sides of the frame, rotate the two arm control knobs (N) with both hands to position the frame at the center of the turntable.
8. Tighten the two clamp levers (M) on the sides of the post, and tighten the two arm control knobs (N) a bid with both hands. The frame is now secured into position.



[FIGURE 6]



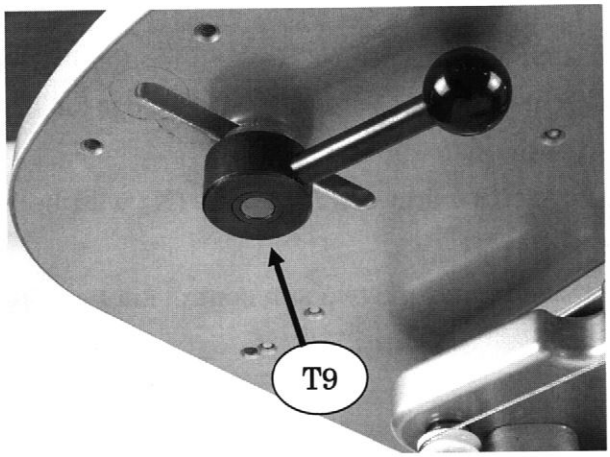
[FIGURE 7]

9. When stringing at high tension, or if concerned about frame distortion, we recommend that you use the optional tennis type H attachment (H1) at the top of the racket. To use this, remove the billiard attachment (X) and insert it between the racket and the billiard. (See Figure 7)

10. The mounting procedure is the same for soft tennis rackets.

11. For mounting badminton rackets, the post will need to shift as you will see on the next page, otherwise, the mounting procedure is also the same.

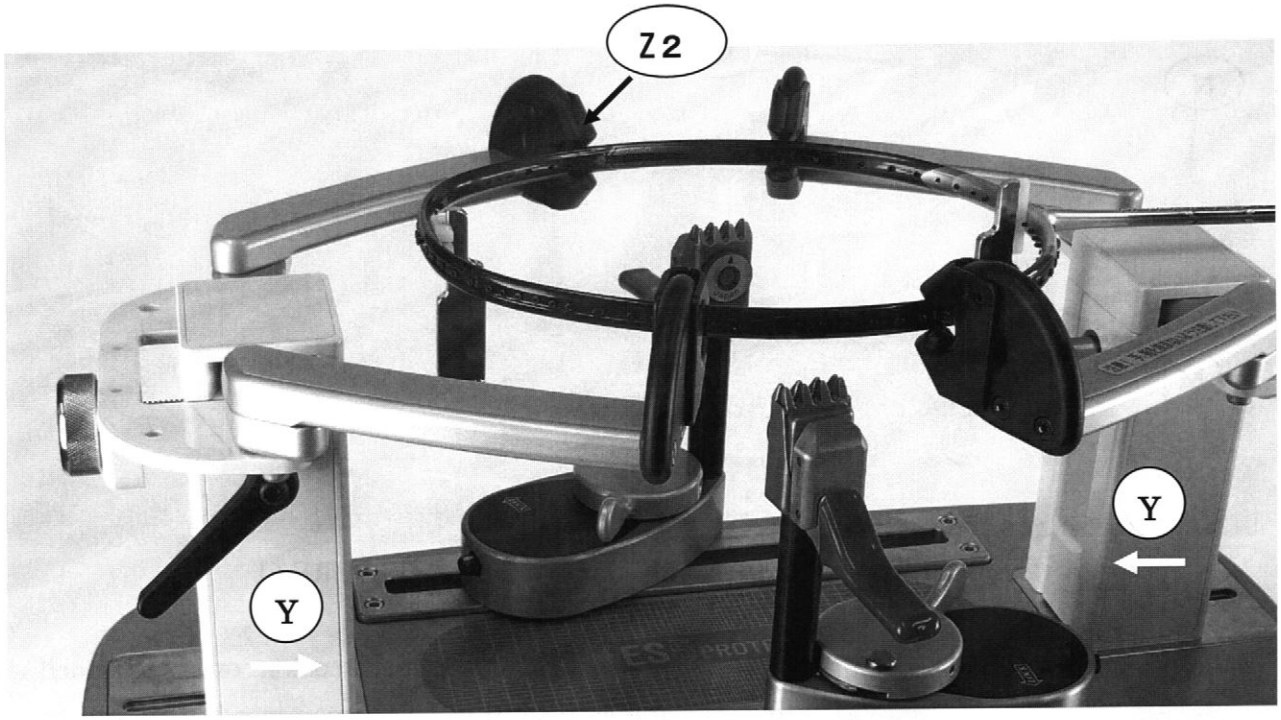
Mounting a Badminton Racket



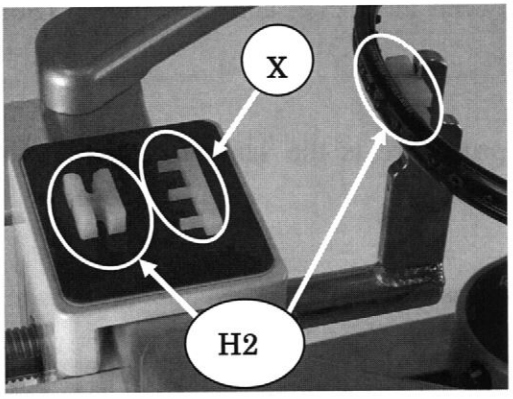
[FIGURE 8]

Shifting the Post

12. Rotate the post securing lever and shift both posts (Y) as far inwards as possible. (See Figures 8 and 9)
13. The posts are secured **as far inwards as possible** when stringing badminton rackets, and **as far outwards as possible** when stringing tennis rackets. (See Figure 9)

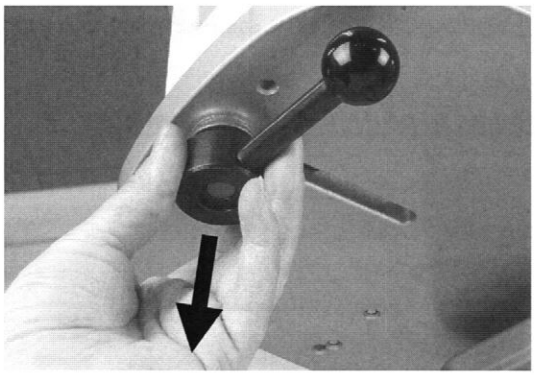


[FIGURE 9]



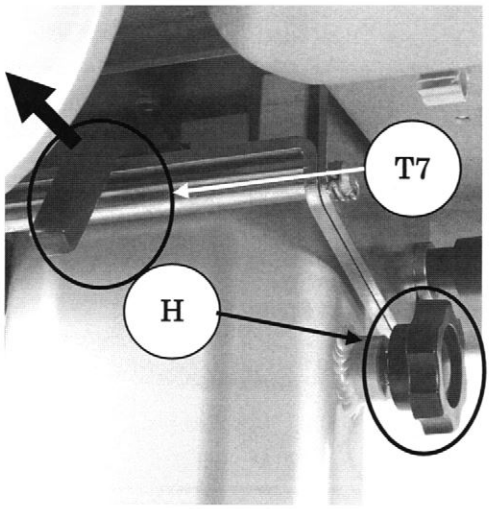
[FIGURE 10]

14. Once the posts (Y) on both sides have shifted as far inwards as possible, replace the clamps with badminton clamps (V2) and cover them with the badminton adapters (Z2). (See Figure 9)
15. If concerned about frame distortions, we recommend that you use the optional badminton type H attachment (H2) at the top of the racket. To use it, remove the billiard attachment (X) and insert it between the racket and the billiard. (See Figure 10)



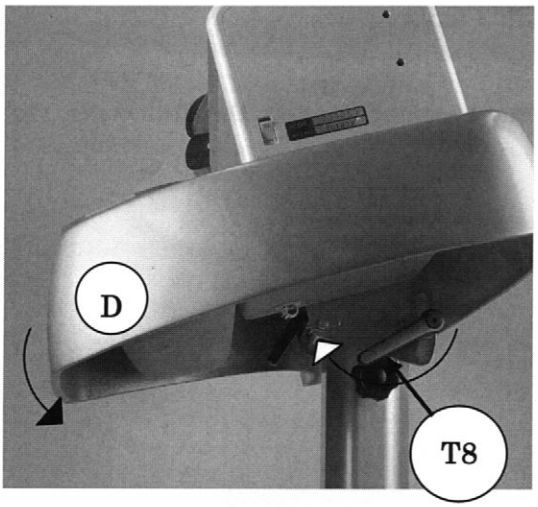
Modification method of the post securing lever

After securing the post securing lever, pull down the center of the lever like in the figure on the left to allow free rotation. Turn the handle until the lever is facing outwards and release.



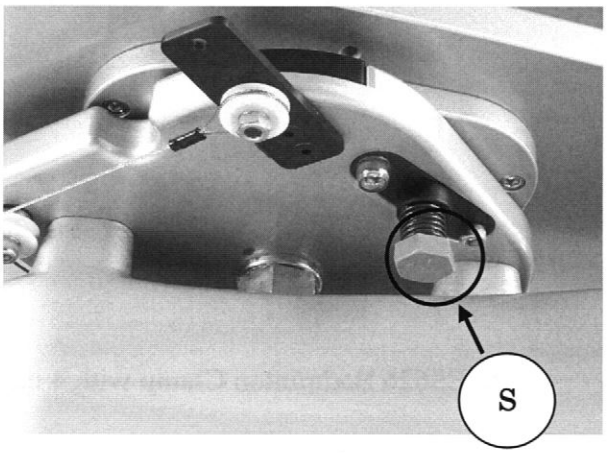
Method for coordination of the height of the work table

1. Loosen the knob bolt (H) with a black grip.
2. Lift up or down the table pulling the red colored height adjustment lever（T 7）on the back
3. Tighten the knob bolt (H)



Method for coordination of the angle of the work table

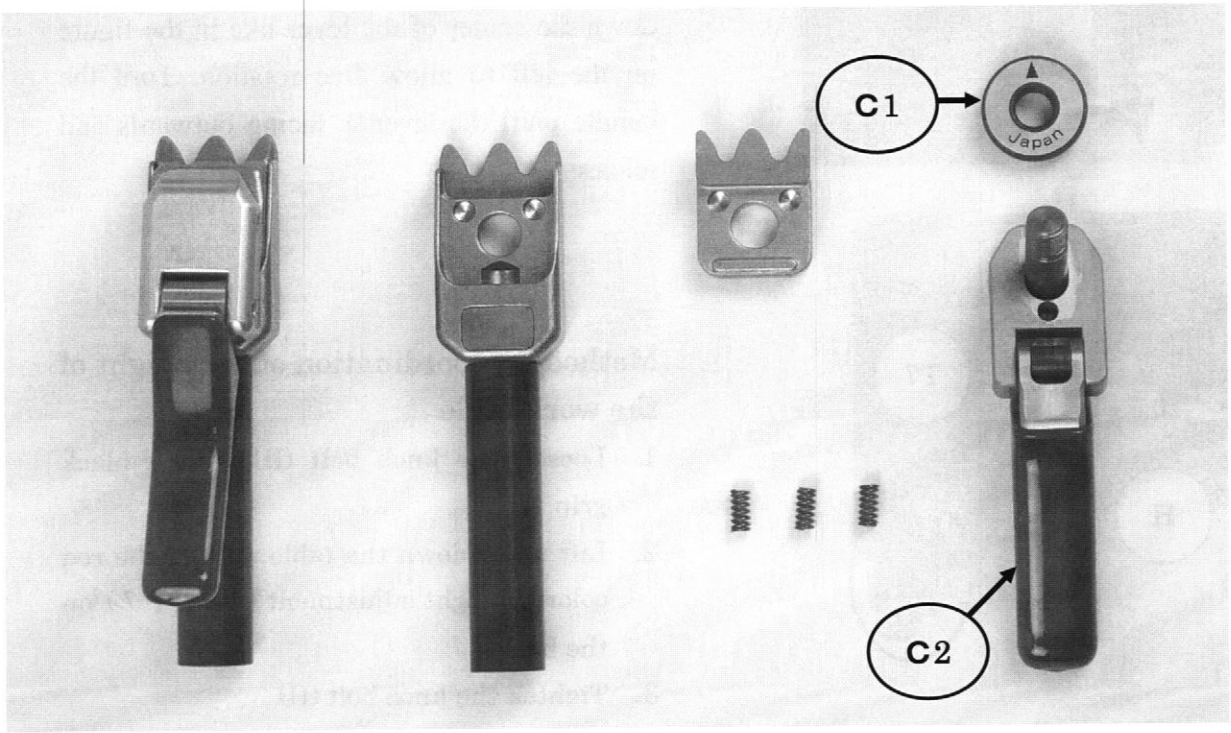
1. Loosen the angle adjustment lever (T8).
2. Tilt the work table (D) stepping on the base (B).
3. Tighten the angle adjustment lever (T8).



4. When the turn table turns spontaneously, fine-tune the soft break and don't make it easy to rotate.

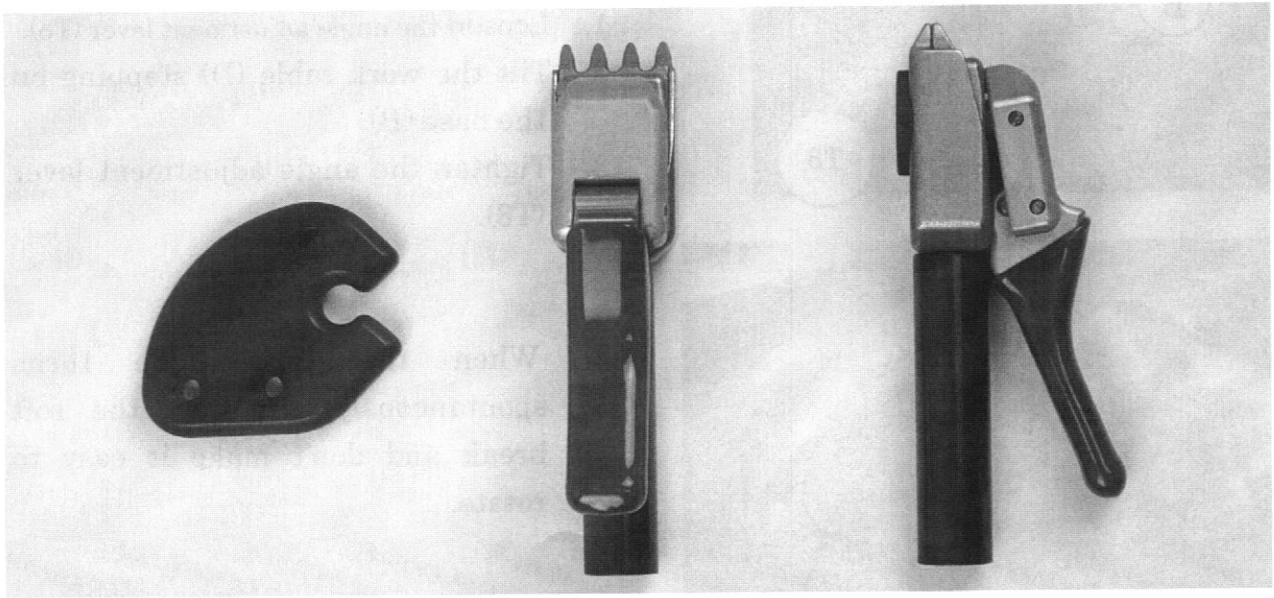
As you can see below, the clamp is composed of 4 parts and 3 springs. Regularly disassemble the clamp to clean the components.

Also, ***lubricate the inner side of the clamp post on a regular basis to protect against corrosion.***



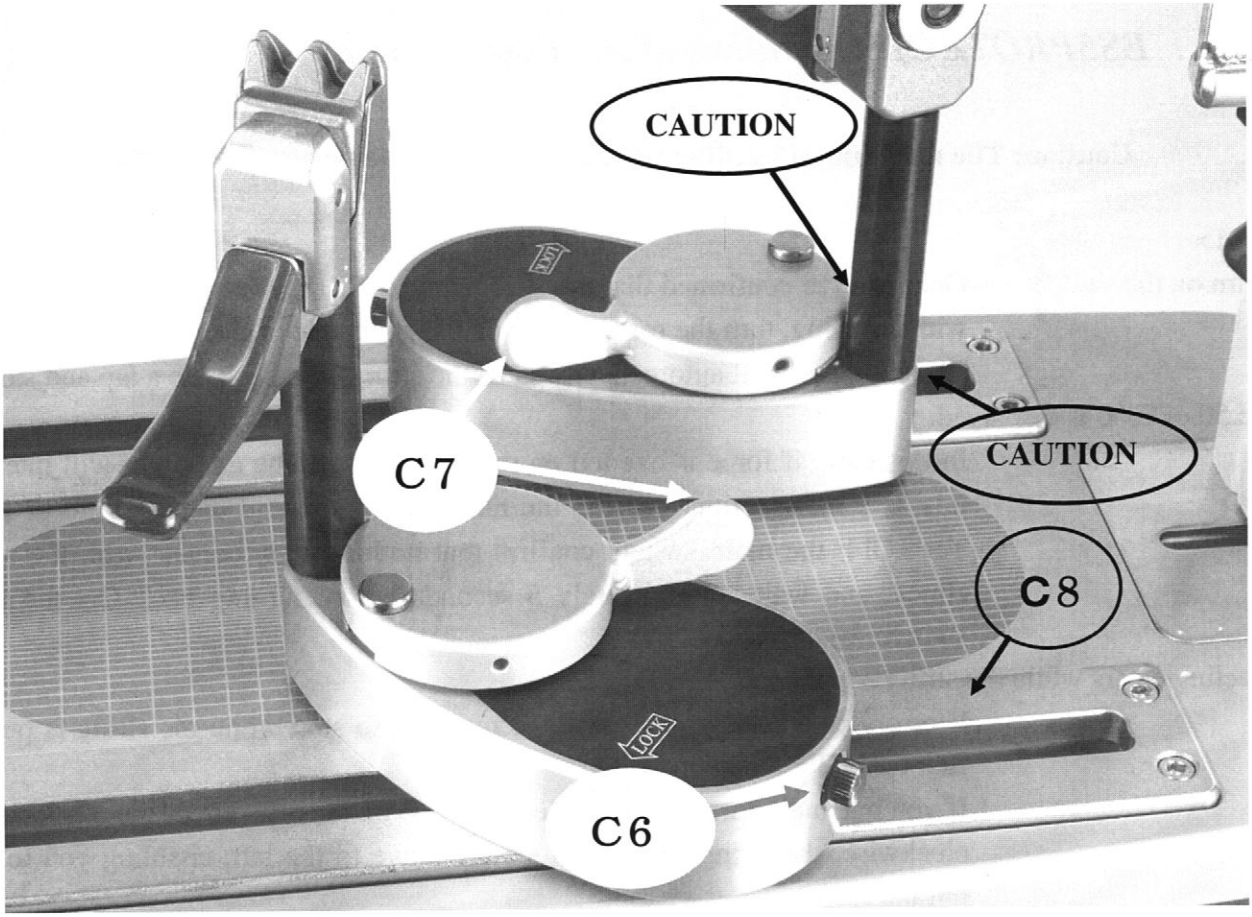
PT-ES625 Tennis Clamp with 3 nails

Badminton stringing machines (ES5PROTECH-B) are already equipped with the following racket holders and badminton clamps.



PT-ES541 Badminton Racket Holder

PT-ES626 Badminton Clamp with 4 nails



[FIGURE 11]

16. Always keep the clamp base rail (C8) clean. If grease or wax adheres to it, tension of the string will not be sustained. If a locked clamp base moves, clean the clamp base rail. Otherwise, clean daily with a dry cloth, and if string coating agent flakes fall and adhere to the rail, peel off with solvent medium such as acetone. ***Clamp base rails must regularly have the surface and grooves polished with fluids such as lighter fluids or turpentine oil.*** Never use grease or machine oil. Approximately once a month, unscrew all 4 bolts of the rail and polish the backside.
17. ***Cautiously handle the clamp base adjusting screws (C6)***. The adjusting screws of both clamp bases must always be in the same position, **the white line basically facing straight up**. If the clamp base doesn't securely lock despite the cleaning of the rail (usually when using for over a year), try turning the clamp base adjusting screw so that the white line ***is positioned approximately at 1mm to the right from the straight up position.***

CAUTION! If the clamp base adjusting screw is fastened too tightly when locking the clamp base handle (C7), not only will it affect the motion of the clamp base, but it **may also damage internal parts**.

CAUTION! **Be careful not to get your finger caught between the clamp post and the clamp base handle when removing the clamp.**

ES5PROTECH Operation of the Tension Head Ver.1.03e

Caution: The machine will suddenly start if you turn the power switch ON.

<Step1>

1. Turn on the switch

Once you've confirmed that the string chuck (R) (See figure 3) isn't in contact with anything, turn the main switch on the right side of the tension head to ON. The computer will automatically start; the string chuck will do a lap and stop.

If E.50 or E.60 is displayed

In this case, if force is exerted on the string chuck, the computer will interpret this as a malfunction, causing the machine to stop and display E.50 or E.60. Turn OFF the main switch, confirm that nothing is in contact with the string chuck, and wait approximately 5 seconds before turning back ON the main switch.

Canceling errors while the string is pulled

If errors or other reasons cause the machine to stop while the string is pulled, first turn OFF the main switch.

If you manually turn the *knob* (See figure 3) on the left side of the tension head clockwise, the string chuck will slowly move to the left, enabling you to pull out the string.

Once that's done, turn the main switch back ON.

WARNING! **Keep away from the knob when the switch is on because of its rapid spin(See figure 3).**

2. Adjusting the tension

When the computer starts up, each LED will light up according to the last setting, and the set tension will be displayed at the center of the menu screen. First, if for example the set unit is pounds (LB), you can set the tension to any value ranging from 10 to 88 pounds using the Up and Down buttons that you see on either side of the screen. Give it a try.

3. Operating

If you lightly press the Start button, the LED of L.2 will light and the string chuck will start shifting towards the right. The buzzer will sound once and when the chuck is all the way to the right, it will stop, and the LED of L.4 will light. In this case, the LED of L.4 lights because the string hasn't been pulled yet and because there is consequently still no tension involved. If you lightly press the Start button again, both the chuck and LED will return to their original position and display.

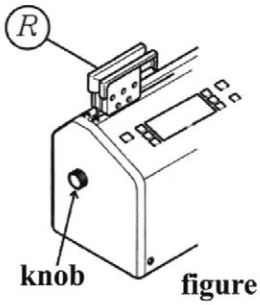


figure 3

CAUTION! **Be careful not to get your hands or fingers caught in the moving string chuck.**

4. Pulling the string

Once you fully insert the string into the chuck and slightly slide the upper part of the chuck towards the left, the switch will turn on. Immediately let go of the chuck as soon as it starts moving towards the right. Once in motion, the display will change from "set tension" to "0", and when force is exerted the screen will display the increasing tension until the set tension is nearly reached, and once reached the chuck will rapidly decrease the speed to finally come to a halt. When tension reaches its set value, a "beep" signaling sound will be heard twice and the LED of L.3 will light before it stops once. However, if a change in tension is felt, the chuck will repeatedly move from left to right to maintain the set tension. (Note: the set tension is not maintained during the normal mode.) Press the Start button again to return the chuck to its original position. Only the Start button is effective when doing so.

Warning sound

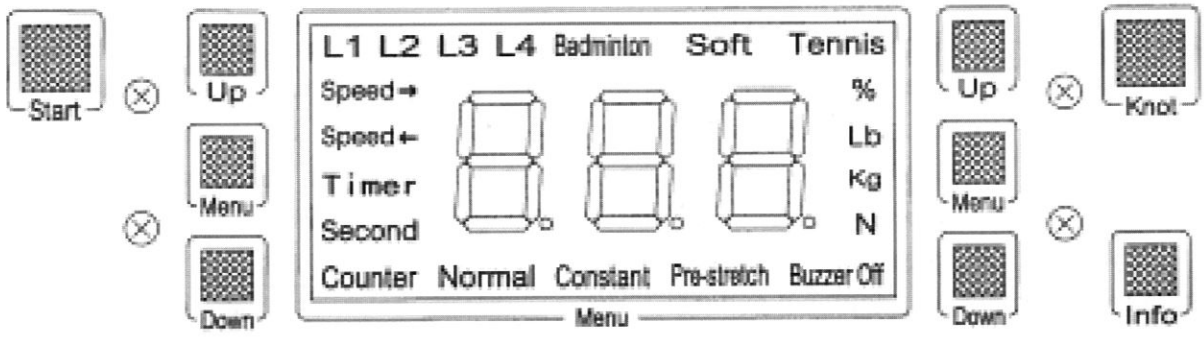
If no button is pressed for 3 minutes, a "beep" warning sound will be heard 3 times as a reminder that the switch has not been turned off. This warning sound will go off every 3 minutes.

CAUTION! **Do NOT leave the tension head with the strings pulled unattended.**

WARNING! **High-voltage current flows through the tension head. NEVER open it. If you open it, the guarantee will not cover for the repair services.**

5. Trying the stringing operation

Hopefully you've become familiar with the Up, Down, and Start buttons. These are basically all you need for the stringing operation. Even if you happen to press the Menu button, wait 5 seconds or press the Knot button to return to the original screen displaying pounds. Give it a try.



<Step 2>

MENU Functions

Lightly press one of the yellow Menu buttons that you see on each side of the screen. All around the center menu screen, you will find 20 types of indicators and one of them will be flashing. The flashing one indicates the nature of the setting to which you can add changes. If you press the right Menu button, the flashing indicator will move clockwise, and if you press the left Menu button, it will move counter clockwise. At any time, if no button is pressed within 5 seconds or if you press the Knot button, it will bring you back to the original tension display screen.

6. Setting the pulling speed

SPEED→

If you press the Menu button once, the first screen will display "SPEED→" and a large F-6 at the center. Once these appear, press within 5 seconds the Up or Down button to select the setting from F-1 to F-9. This value corresponds to the pulling speed of the chuck when pulling the string. F-1 is the slowest, and F-9 the fastest. The screen will return to its original display with a 5-second time-lapse or with the pressing of the Knot button.

7. Setting the returning speed

SPEED←

If you press the left Menu button twice, the screen will display "SPEED←" and a large H-9 at the center. Once these appear, press within 5 seconds the Up or Down button to select the setting from H-1 to H-9. This value corresponds to the returning speed of the chuck when the string returns. H-1 is the slowest, and H-9 is the fastest. The screen will return to its original display with a 5-second time-lapse or with the pressing of the Knot button.

8. Display of the Counter

Counter

If you press the left Menu button 5 times, the bottom left of the screen will display "Counter" and a 3 digit number will appear at the center. While these are displayed, press the Up and Down buttons to change the 3 digits. The first displayed numbers are the last 3 digits. When you press the Up button, the counter will display the first 3 digits. Use the Up and Down buttons to set the 6 digit number. With each lap that the string chuck makes, the number will go up. For each racket, you will get an approximate number of strings if you divide it by the average number of pulling motions, which is 35. The screen will return to its original display with a 5-second time-lapse or with the pressing of the Knot button.

9. Setting off the Buzzer

Buzzer Off

If you press either Menu button 9 times, the screen will display a large ON at the center. This means the buzzer function is on. If you wish to turn off the buzzer, press the Down button to turn it OFF. The operating sound will no longer be heard, but the warning sound will go off in case of an error. The screen will return to its original display with a 5-second time-lapse or with the pressing of the Knot button.

10. Setting the percentage of additional pulling

%

If you press the right Menu button 5 times, the screen will display "%" and 110

at the center. While this is displayed, use the Up and Down button to change the setting to any value between 100 and 120. The rest will be explained in <Step3>; just remember that you can set it at any value between 100% and 120%. Here, changing the value in itself is meaningless. You can also change the setting by pressing the upper right Knot button. The screen will return to its original display with a 5-second time-lapse or with the pressing of the Knot button.

11. Setting the time of the Timer

Second

If you press the left Menu button 4 times, the screen will display "Second" and 10 at the center. This means 10 seconds. Just remember that you can set from 1 to 30. Here, changing the value in itself is meaningless. The screen will return to its original display with a 5-second time-lapse or with the pressing of the Knot button.

<Step 3>

12. Setting the Timer

Timer

If you press the left Menu button 3 times, the screen will display "Timer" and a big OFF at the center. If you press the Up button, the display will change to ON and this will turn on the timer. After the string is pulled, L3 will light up, and once it reaches its set tension, the buzzer will sound after a time-lapse of the set number of seconds and it will switch to Normal mode. Managing the stretching time of the string enables a more accurate stringing operation.

13. Setting for each type of racket

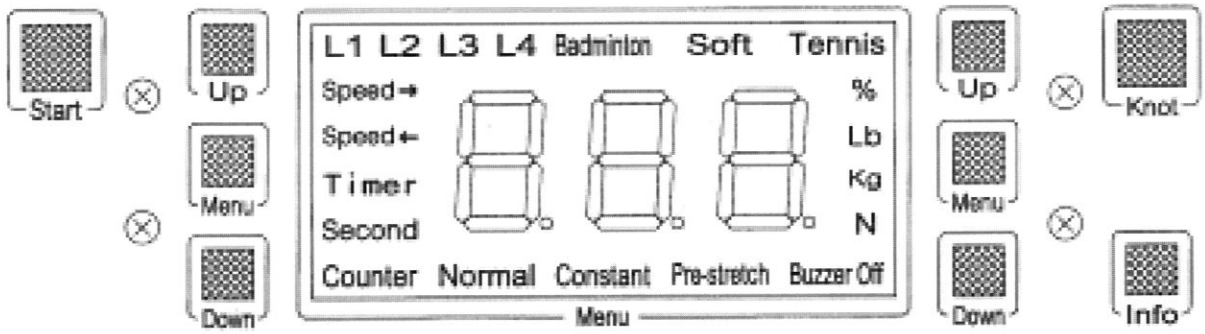
Badminton

If you press the right Menu button twice, "Badminton" will flash on the screen, and a big OFF will display. If you press the Up button, the display will change to ON. This is where you register the setting contents for stringing a badminton racket. Settings which are inadequate for stringing a badminton racket are restricted.

14. Setting for each type of racket

Soft

If you press the right Menu button 3 times, "Soft" will flash on the screen and a big OFF will display. If you press the Up button, the display will change to ON. This is where you register the setting contents for stringing a soft tennis racket. Settings which are inadequate for stringing a soft tennis racket are restricted.



15. Setting for each type of racket

Tennis

If you press the right Menu button 4 times, "Tennis" will flash on the screen and a big OFF will display. If you press the Up button, the display will change to ON. This is where you register the setting contents for stringing a tennis racket. Settings which are inadequate for stringing a tennis racket are restricted. If you set a type of racket to ON, the last racket which was ON will automatically be switched OFF. You can set all of these 3 rackets to OFF, as you will see in 16.

16. Setting for each type of racket

Others

If you press the right Menu button to bring the flashing to the type of racket that was selected (Badminton, Soft, Tennis) and then press the Down button, the display will change to OFF. This is the fourth mode and the contents set here will also be registered. Even after turning off the switch, the last settings of these four types of racket will be registered.

17. Types of pulling

Normal

If you press the left Menu button 6 times, "Normal" will flash, and a big OFF will display at the center of the screen. If you keep pressing the UP button for 3 seconds, the flashing will stop and an ON will display. {* You can not choose OFF because these are alternative choices; if either one is set to ON, the other will automatically be set to OFF} When the Normal mode is ON, the tension of the pulled string stays as is (even if the tension loosens, it will keep displaying the tension as is, without additional pulling) and can be used to measure the tension of other machines, or as a measuring function for the spring tension gauge.

18. Types of pulling

Constant

If you press the left Menu button 7 times, "Constant" will flash, and a big OFF will display at the center of the screen. If you keep pressing the Up button for 3 seconds, the display will change to ON. If the Constant mode is ON, even when the set tension has been reached, there will be additional pulling in order to maintain that same tension. You will notice that the knob on the left side of the tension head will be moving at brief intervals. This is the mode usually used for stringing. Normal, Constant, and Pre-stretch are 3 alternative settings. To change the setting, press the Up button while in the selection mode for ON to start flashing. To confirm the change of setup, *keep pressing for 3 seconds to stop the flashing and to confirm that the setup is ON*.

19. Types of pulling

Pre-stretch

If you press the left Menu button 8 times, "Pre-stretch" will flash on the screen, and a big OFF will display at the center. If you press the Up button, the display will change to ON. If the Pre-stretch mode is set to ON, the tension will once exceed the set tension by the percentage set with "%" (percentage between 100% and 120%) and then return to the set tension to maintain it. If for example a racket is strung with 50 pounds and 110% additional percentage, the tension will once rise to 55 pounds, will then be reduced back to 50 pounds, and will keep on maintaining 50 pounds.

20. Knot Tension

Knot

When the string chuck is situated on the left and L1 is lit, if you press the upper right Knot button, you can confirm the already set percentage for additional pulling. Here, you can change this setting with the Up and Down buttons. Knot tension is the additional pulling that you do beforehand due to the expected loosening of the string when the knot is tied at the end of the stringing process. Press this button when L3 is lit; in other words, when the string has been pulled and has reached the set tension. For example, if the set tension is 50 pounds, with 110% additional pulling, tension will rise to 55 pounds and will keep maintaining that tension. If it's set to 120%, it will pull up to 60 pounds. The knot tension mode is only effective once at a time and is automatically cancelled after each use. It will go back to the previous mode.

21. Changing the tension unit

Lb

If you press the right Menu button 6 times, "LB" (pounds) will flash and a big ON will display at the center. *You can not choose OFF because these are alternative choices. If either one is set to ON, the others will automatically be set to OFF.*

22. Changing the tension unit

Kg

If you press the right Menu button 7 times, "Kg" (kilogram) will flash and a big ON will display at the center. If you keep pressing the Up button for 5 seconds, the flashing will stop and the display will change to ON. The set unit will change to Kg. 1 kg is approximately 2.2 lbs.

23. Changing the tension unit

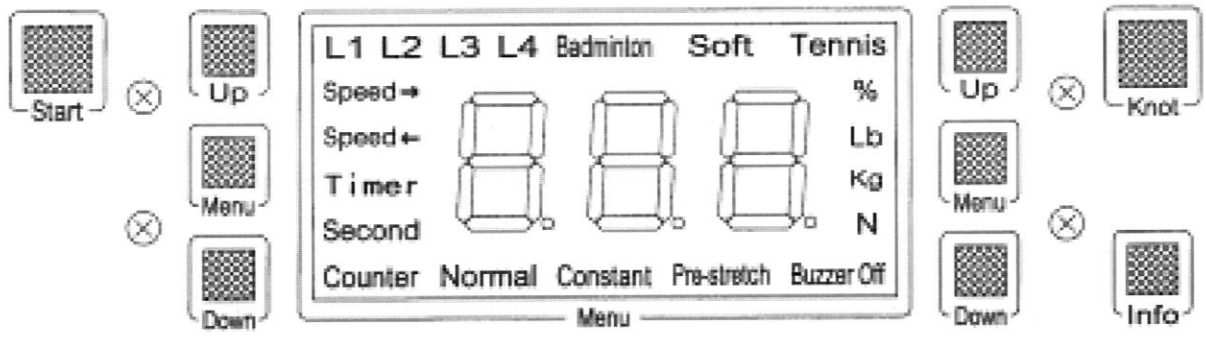
N

If you press the right Menu button 8 times, "N" (Newton) will flash and a big OFF will display at the center. If you keep pressing the Up button for 5 seconds, the flashing will stop and the display will change to ON. The set unit will change to N. 1kg is approximately 10N.

24. Information

Info

If you press the bottom right Info button, the screen will display P.OO. You can refer to the separate booklet entitled ***Operating Manual in response to Info*** for details on the flashing indicator functions. The flashing position will shift by pressing the Info button or the Menu button.



ASSEMBLY INSTRUCTIONS

1. Insert the angle adjustment lever into the main post (A), and secure.
2. Turn the work table(D) inside out and put it on the floor, and turn the main post upside down and put it on the work table (D) combining the salient part and the depressed part of each, and secure with the 4 cap bolts (G3) (M6×45) using the hexagonal driver.
3. Put the base (B) on the upside down main post (A) combining the salient part and the depressed part, and secure with the 4 cap bolts (G1) (M8×40) using a hexagonal driver.
4. Turn the table assembled upside down upside down.
5. Insert the turntable (E) into the bushing of the work table, and secure from the backside with the 3 cap bolts (G3) (M6 ×45) using a hexagonal driver.
6. Insert the tension head (F) into the concave section of the work table, and fasten with the 3 cap bolts (G2) (M6 × 18) using a hexagonal wrench.
7. Keep pulling the lever (T8) and adjust the height of the work table, you can fix it when you take your hand off the lever. Tightly fasten with the knob bolt (H).

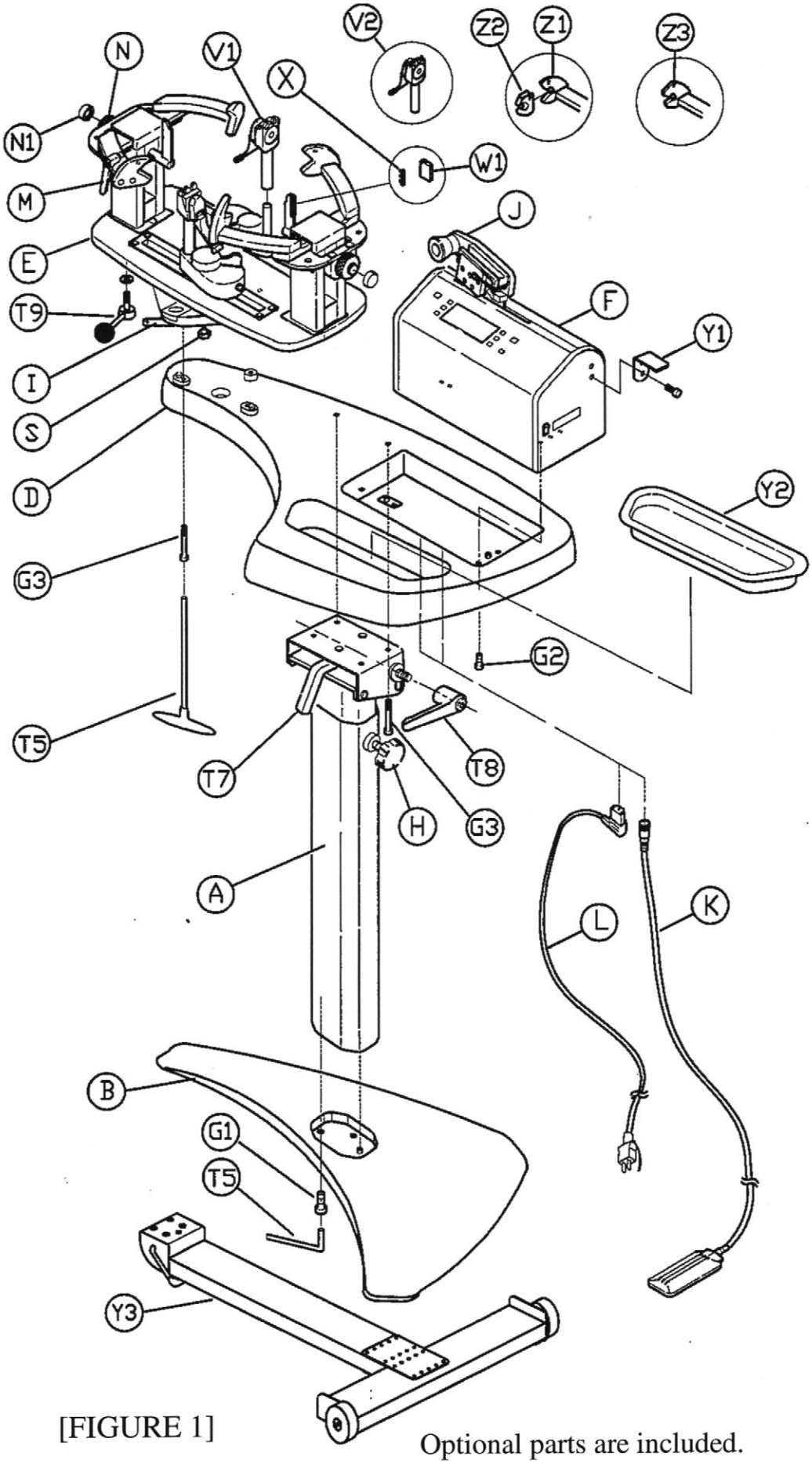
CAUTION! ***Please pull the height adjustment lever after loosening the knob bolt.***

8. Regarding the height adjustment, the work table can be heightened up to 19cm.
9. *Fully insert the power cord (L) connector* into the tension head. Use independent power sources as much as possible, and especially avoid sharing power sources with motor run machine. *Also use a grounding wire.*

10. Insert the 2 clamps (V1).

11. (K) and (W1) are optional.

12. Assembly of (V1), (V2), (Z1), (Z2), and (Z3) varies with models.



[FIGURE 1]

Optional parts are included.

GUARANTEE

The present machine is guaranteed for a period of ~~3~~ 1 years from the date of its purchase. However, this is not applicable to faults caused by improper or inadequate use of the machine. The machine must be delivered for repairs within the guarantee period.
Shipping costs are at customer's expense.

Guarantee Limit Year 2016 Month 11 Day 14

Mfg.No. 202208

Specifications

Control Device: 16bit microcomputer
Power Source: AC100V-240V, 50/60Hz
Power Consumption: Up to approx. 150W (in operation)
Size: Approx. 940W × 540D × 1050H (1230H)
Weight: Approx.58kg
Country of Origin: Japan
*Design specifications may change without notification.

Please contact the head office, branch offices, or business offices listed below for enquiries regarding this machine.

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