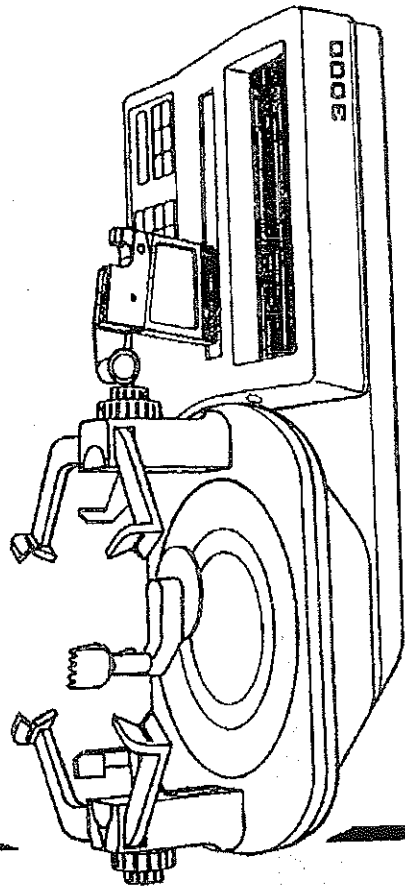


BABOLAT



user's manual

Contents

3000 series

Available in 4 versions : 3001 Mono - 1 electrically operated clamp - and 3002 Dual - 2 electrically operated clamps- (both machines can be delivered with the ERT measurement system), the 3000 series is the most sophisticated of the machines in the Babolat VS range. Intelligent pulling system and automatic programming make this series ideal for shops with high stringing volume. The machines are operated by two 8 bit micro-processors - one is in charge of the control system and the other deals with symbol keyboard and programming - They are supplied with a revolutionary ergonomic turntable which is much more accessible than conventional models. The frame support system is a totally original design and the power-assisted clamp locking feature is made possible by another Babolat VS innovation : a turntable supplied with planetary clamps holders. They also deserve a special mention for their design.

1) Reception procedures

2) Opening the box

3) Contents of the box

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enlarged views

6) Operation

7) Positioning the racket in the machine

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1 - reception procedures

Before opening the carton, make a visual inspection to see if it has been damaged during shipment. In your own interest, you must mark any comments you may have on the forwarder's delivery docket before proceeding further. Also check the label attached to the outer carton to make sure that the machine is in conformity with your order.

2- opening the box

Babolat VS takes every precaution to make sure your machine has been delivered in good condition. The cardboard box is reinforced and the machine is wedged into place in a double polystyrol shell. We advise you to store the packaging material carefully in case you need to send the machine back to the factory. We decline all responsibility for machines which are not shipped in their original packaging.

3- box contents

The box should contain :

- 1 abrasing machine
- 1 VFC coated fabric cover.
- 1 set of 2 billiards for tennis rackets
- 1 set of 2 billiards for badminton/squash rackets
- 2 adaptors for oversized rackets
- 1 set of Allen keys
- 1 set of spare polyamid-liners for frame pulter supports and «V» clamps.
- 2 metal «X» templates
- 1 or 2 central clamps depending on the model
- 1 3-lead power cable
- 1 instruction manual

4- unpacking

Open the box, take out manual and accessories.
Take off the polystyrol half shell that covers the machine.
Take the machine out, using provided handles (never use pulling head or arms), taking great care not to drop the machine.
Place the machine on a flat surface, optional cabinet or fit it to the optional hydraulic support post with the appropriate screws supplied (see separate instruction sheet).
Store the packaging in a safe place.
Remove the film which protects the markings on the top of the posts.

5- assembly

Connection to the power supply

Unpack the power cable and insert the socket into the power unit located below and to the right of the machine. Insert the plug into a 3-pin 220 V/50 or 60 Hz wall socket (unless the machine has been ordered and supplied for use in countries with a 110 V / 50 or 60 Hz electrical supply). Switch the machine ON with the main switch. The red display warning light must come on. If it does not, check the power supply. If the power supply is satisfactory, check the fuse in the power unit.

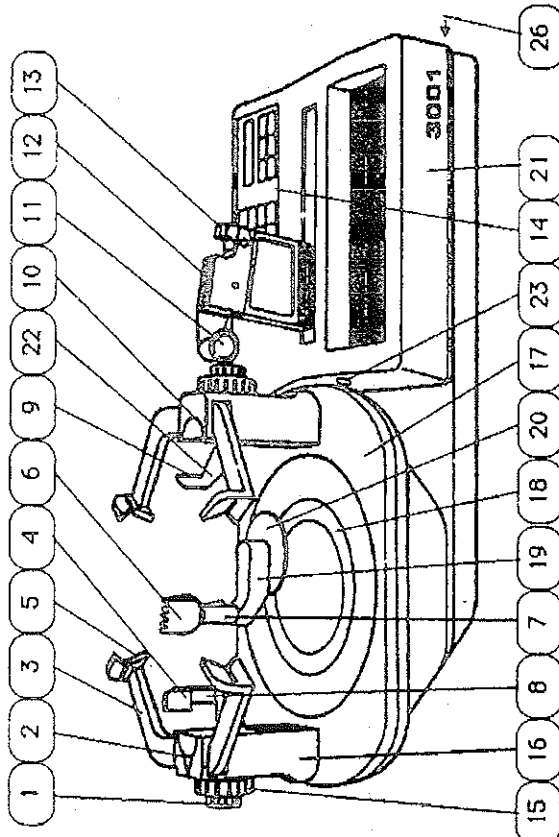
To do so :

- Unplug the power supply connector socket (picture n°1 & 2)
 - Extract the fuse-holder with a screwdriver
 - If the fuse is defective, replace it with the spare fuse stored in the hollow part of the fuse-holder or with any 5 x 20mm delayed action 1,6 glass fuse
- If the machine still does not work, contact your Babolat VS after sales service.

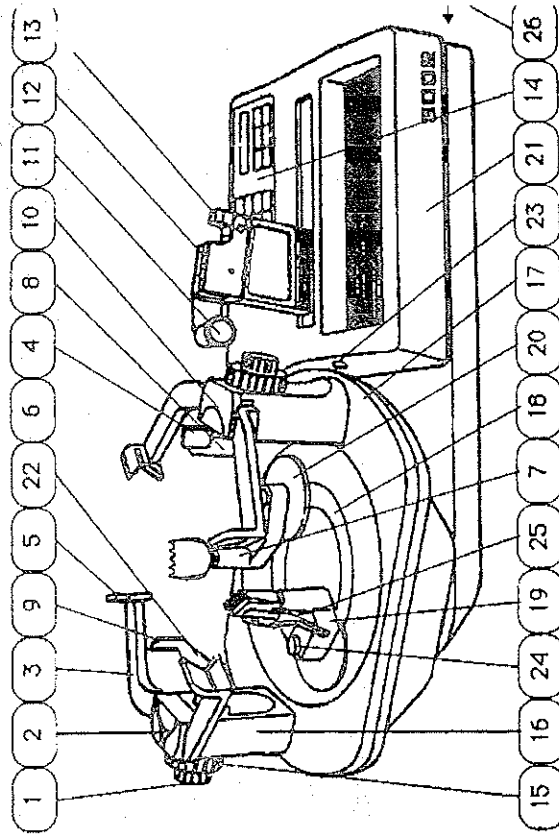
Once these tests have been carried out :

- Turn the turntable sideways
- Disconnect the machine.

WARNING : For delivery purposes, the machine is immobilized with a locking screw. This must be removed **PRIOR** to assembly and stored with the packaging. To do so, connect the machine, place turntable sideways, disconnect the machine and totally unscrew. Always fully tighten this screw when moving the machine to protect the sensor unit from transportation shocks, particularly if you are sending the machine back to the factory. Non-compliance with this instruction will invalidate warranty.



- 1. Billiard control knob
- 2. «Racket throat» positioning symbol
- 3. Profiled arm
- 4. Adaptor for oversized frames
- 5. Yellow polyamide «V» insert
- 6. Central holding clamp
- 7. Holding clamp support
- 8. Tennis racket billiard
- 9. Billiard insert (normal or special)
- 10. «Racket head» positioning symbol
- 11. Diabolo
- 12. Pulling unit
- 13. «Cycle start» button
- 14. Keyboard
- 15. Arm control knob
- 16. Post (fixed)
- 17. 3000 turntable
- 18. Brushes
- 19. Planetary clamp support arm
- 20. Solenoid holding clamp support
- 21. Motor housing
- 22. Squash / Badminton billiard
- 23. Transport lock screw
- 26. Mains & fuse



- 1. Billiard control knob
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- 23. Transport lock screw
- 24. clamp support control button
- 25. « clamp support locked» flag
- 26. Mains & fuse

6- operation

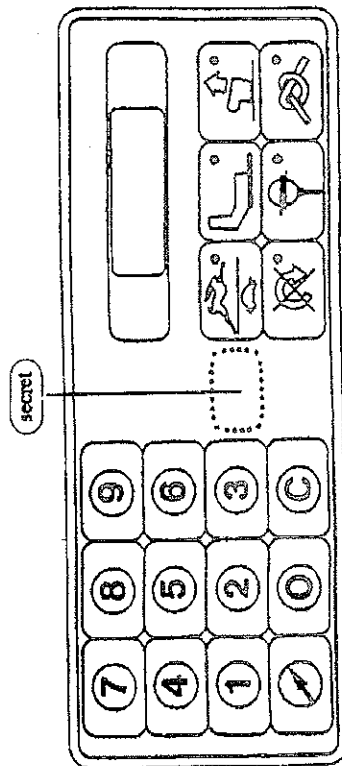
Switch the machine ON.

1. Place the machine on a level horizontal surface.
2. - a. Model 3001 Mono : Insert the holding clamp in the clamp support
- b. Model 3002 Dual : Insert both holding clamps in the two clamp supports
3. Press the yellow «cycle start» button on the linear pulling unit head to test that it is working correctly. The pulling unit should move from left to right. When the unit reaches the extreme right hand end of its travel, a buzzer should sound. Press the yellow button again to return the unit to its starting position.

keyboard

3000 series are supplied with a two-section keyboard for programming and operating the machine. (picture n°3)

The right hand section has keys for 6 preprogrammed functions, with control red lights on each key. (picture n°4)
The left hand section is a digital key pad, used to select tension values from 5 to 40 kgf and to give encoded instructions to the machine. Instructions are written into an EEPROM memory which stores them without the need for a continuous electrical supply.



The digital key pad has 12 keys.

- 10 for the numbers 0 to 9,
- 1 «enter» key to confirm the values entered and store them in the EEPROM memory.
- 1 «clear & reset read-out to 0» key for selection of new values. A feature which safeguards the previous values enables their reinsertion if this key is pressed again.



The read-out display screen

The read-out screen displays the effective and programmed string tensions as well as messages like kg and lbs. The tension range is 5.0 to 40.0 kg and 10 to 90 lbs. The tension applied to the string is shown correct to the nearest 100g or 1 lb during the pulling cycle. The displayed value of the tension selected is corrected by the modifications applied to the basic tension when working on horizontal strings and knots.

At the machine switch on, the read-out displays the previous tension used that is stored in the permanent EEPROM memory.

To change the tension, see page Using the keyboard

N.B. During the pulling cycle, the read-out displays the traction effectively applied to the string.

Tension values can be programmed to the nearest 100g increments or pound (lbs).

Programming possibilities : see page Using the keyboard

Testing the set-up parameters :

Your machine has been pre-set in our plant, and this internal memory set up (that varies per machine type) allows it to work.

- Press the «secret» key and then key 3.

The read-out should display :

011 for 3001 machine

010 for 3002 machine

111 for 3001 machine ERT

110 for 3002 machine ERT

If the code displayed does not correspond with your machine reference number, press key 3 until the correct code appears and then press the «Enter» key to store it in the memory.

Warning : Once this code has been entered it will not be possible to change it again.

The «functions» keyboard section

This section of the keyboard is used to select the 6 preprogrammed machine control functions

1. Speed selector key + LED

Any of 3 operating speeds can be selected.
At power up, the average speed is selected and displayed.
To change the speed, press the «Speed» key once or twice.

Slow speed : LED is ON continuously
Average speed : LED is ON and flashing
Fast speed : LED is ON and flashing rapidly

2. Holding clamp support release key (3001R only).

Pressing this key unlocks the holding clamp support for 30 seconds (for example, to release the holding clamp when stringing is completed).

Automatic operation selected : LED is ON and flashing
Holding clamp support locked : LED is ON
Holding clamp support released : LED is OFF

3. Raising the linear pulling unit head

With its «pulling unit head raising», the stringing machines in the 3000 series are the first in the world to be able to work automatically in a perfectly horizontal plane at a constant height. This guarantees absolute precision and conserves total string performance as there is minimum friction between the string and the racket during pulling.
The linear pulling unit head rises automatically when the «cycle start» button is pressed. This function is automatically suppressed if the racket handle interferes with the pulling unit.



N.B. Always position the racket in the machine as shown by the graphic symbols on the top of the posts. Failure to do this could damage the racket handle. For rackets with axes that are not aligned with the handle, press the key which prevents the unit from rising.

Low position : LED is OFF
Automatic rise function : LED is ON and flashing

4. Electrically operated turntable lock

The turntable can be locked automatically (during each pulling cycle) or manually to suit each stringers style.

In the manual mode the turntable is free : LED is OFF
In the manual mode the turntable is locked : LED is ON
In the automatic mode (on stand-by) : LED is ON and flashing
When the automatic locking feature is operating i.e. during pulling cycle : LED is ON

To shift from one mode to the other, press the «secret» key and then the «turntable» key.

5. Higher and lower tensions for cross strings

This key is used to vary the tension selected for the main strings. The value of the variation applied can be programmed to add or subtract 0 to 10 kgf as recommended by the racket manufacturer. Programming instructions are given on page : Using the keyboard.

Cross string mode (ON) : LED is ON
Cross string mode (OFF) : LED is OFF
During programming : LED is flashing

6. Overtension for knot

The «overtension for knot» function allows for an increase of from 0 to 5 kgf to be applied to the tension initially programmed (for both main and cross strings) to compensate for tension loss in the knot.
The overtension command is automatically cancelled once the pulling cycle has been implemented. Programming instructions are given on page : Using the keyboard.

In the overtension mode : LED is ON
Overtension mode OFF : LED is OFF
During programming : LED is flashing



7. The «Secret» key

This key is hidden for safety reasons. It is used to access to all the programming operations.

Housing

The machine housing is made up of three polyester modules with a pearl finish colored during molding for easy maintenance. The housing incorporates a shelf for tools and accessories.

Electrical power supply

Factory set to : 110 / 220 / 240 V, 50 / 60 Hz 1-phase + ground. Internal circuits use low voltage in conformity with French standard NFC 52210. Do not open the machine under tension, and do not open it while guarantee period is on without permission from BABOLAT VS.

7- positioning the racket in the machine

1. Position the frame as shown by the symbols drawn on the posts. Hold the frame to be strung in one hand and activate the arm control knob with the other to bring the V-shaped supports into contact with the frame while ensuring that it is centered in relation to the posts. (pictures 5 & 6)
 2. Insert the billiards in the holes. Using the billiard control knobs, bring them into contact with the frame without applying excessive pressure. (picture n°7)
 3. The metal «X» templates supplied are designed to protect frames in which the central holes are very close together. They should be positioned between the frame and the billiards.
- For oversized rackets, 2 adaptors are supplied. These can be attached to billiards in place of the yellow polyamid frame protection inserts and extend billiard travel by 30mm.
- A special set of billiard inserts is supplied for use with microsystem or Head Radial T.M. rackets. These are attached in place of the normal inserts. (pictures n°8a & b).
- The longer billiards supplied are for use with squash or badminton rackets. (picture n° 8)

8- releasing the frame

Loosen the billiards first, the arms second. Once the racket has been removed, fully unscrew the billiards to facilitate the installation of the next racket.

9- string tensioning

Once the racket has been correctly adjusted, consult the stringing plan recommended by the racket manufacturer and select the appropriate main and cross stringing tension with the tension selector. For best results, we advise to use programming notes from page 21 on, until you are quite familiar with the machine.

To tension the string, wind it round the diablo, place it in the centre of the pulling unit and press the yellow «cycle start» button. When the pulling unit starts to move, hold the jaws of the unit closed by pushing the right-end with the thumb to induce self-closing (pictures n° 10 & 11).

Your machine is supplied with a strain gauge sensor which continuously controls the tension applied to the string however far it stretches and whatever the material is made from (gut, synthetic, etc.). During the pulling cycle, the dynamic read-out displays the tension effectively applied to the string correct to 100g or 1 lb. The holding clamp support is automatically unlocked when 90% of the tension selected is effectively applied.

If the linear pulling unit head reaches the end of its travel without applying the tension selected, the buzzer trips to indicate that the tension is incorrect and that the central holding clamp(s) should be used. Set up the clamp(s) and return the pulling unit to its start point to retension the string.

Important : It is essential to wind the string around the diablo before inserting it into the pulling unit : it will prevent crushing during pulling.

10- mono and dual holding clamp system

On both the Mono and Dual models, clamps are activated by a solenoid system attached to planetary arms. On the Mono single clamp machine (picture n°12), the holding clamp support lock is activated automatically by the micro-processor. Whenever the stringer wishes, the clamp on the Mono can be released by pressing a key. In the Dual two clamp version, clamp support selection is controlled by a push-button located on the clamp itself (picture n°13) which integrates a warning flag denoting activation. When the clamp support is unlocked, the flag goes OFF and comes on again when the lock is reactivated with the locking lever.

11- servicing and maintenance

Housing : Clean the outer housing regularly with 90° or 95° surgical alcohol ONLY.

Turntable : Clean the inside of the clamp support barrel(s) with a cloth soaked in surgical alcohol (picture n°14) and then lubricate with light sewing machine type oil (picture n°15).

Clean the inside of the clamp teeth as often as necessary with emery paper to prevent clogging of the tungsten coating which could prevent the string from being held correctly (picture n°16).

Linear pulling unit head : This needs no specific servicing apart from cleaning the articulated jaws of the pulling unit with a surgical alcohol soaked cloth. The jaws can be detached by withdrawing the 6mm dia. pin (picture n°17).

Do not oil the ball-bearings in the guides. They are permanently lubricated in the factory.

Keep turn table surface as clean as possible, avoid dirt or tiny objects intrusion through brushes.

If you have any questions concerning the way your machine works, ask your salesman or contact the nearest Babolat VS after sales service center.

12 options

Balanced central support stand with hydraulic height adjustment system to enable better use of your stringing space.(picture n°18)

Stand/storage cupboard specially designed for this series incorporating levelling system tool storage drawer, lockable door, shelving, etc...(picture n°19).

ERT option

Dynamic tension is the force required to depress the string 1 cm at the sweetspot. The speed and control of the ball both depend on this value. The ERT is an electronic device that simulates the ball impact (string vibration frequency measurement) and converts this value into dynamic tension units, ERT.

It is a precise and practical value that can be measured as soon as you have finished stringing a new frame.

To do so, you will find in the small drawer a special clamp that grips by itself on the strings. This clamp, which is an electronic precision sensor, has to be replaced carefully into its drawer after use. Avoid shocks.

How to make a measurement :

- take the clamp out of its drawer
- check connecting cable, and that connectors are tightly connected
- press the clamp
- set it at the sweetspot, the double line matching the central across string
- release the clamp : it sets itself on the strings
- hold the racket by the handle

- press "secret" key, then "2"
- display shows "F2"
- press again "2", and wait a few seconds. The sensor will make its measurement
- on display shows a number (from 10 to 50) which is the ERT value of this frame and stringing.
- if you press "2" again, a new measurement is made
- you can place the clamp on another racket and make comparisons
- to quit ERT function, press once again "secret", or wait about 30 seconds.
- replace both clamp and cable carefully in the drawer

13- keyboard programming possibilities

O. DEFINITIONS

1. TENSION SELECTION (example : 25,8 kgf)

When the machine is switched ON, the read-out shows the previous tension setting that has been stored in the permanent EEPROM memory. Values are accurate to 100g or 1 lb. During traction, the read-out displays the tension effectively applied to the string.

2. CONVERTING KGS to LBS

3. CONVERTING LBS to KGS

4. PROGRAMMED KNOT OVERTENSION SELECTION (Without changing it)

5. HOW TO CHANGE THE KNOT OVERTENSION (example : change for 3 kgf)

6. HOW TO IMPLEMENT THE KNOT OVERTENSION (example : 3 kgf)

N.B. The knot overtension program only operates for one traction cycle

7. CROSS STRINGING TENSION SELECTION (without changing it)

8. CROSS STRINGING OVERTENSION PROGRAMMING (example : = 2 kgf)

9. CROSS STRING UNDER TENSION PROGRAMMING (i.e.: = 1,5 kgf)

10. CROSS STRING HIGHER & LOWER TENSION EXECUTION (i.e. : - 1,5 kgf)

11. HOW TO LOCK THE KEYBOARD

To protect programmed values from accidental modifications. No parameters can be changed until the keyboard is unlocked.

12. HOW TO UNLOCK THE KEYBOARD

13. HOW TO SWITCH THE BUZZER OFF

14. HOW TO SWITCH THE BUZZER ON

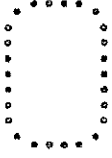







15. ERT MEASUREMENT

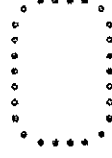



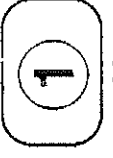



14- how to read the programming pages

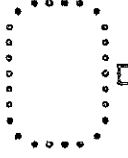



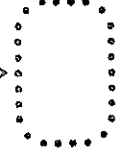
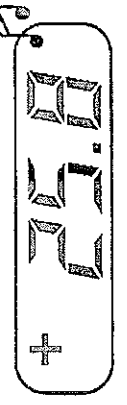
2	1	7	9	8
10	3	5	4	11
6	12			
ACTION	DISPLAY			

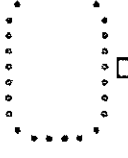
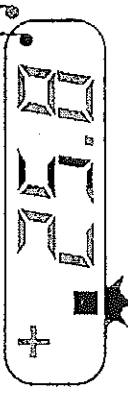

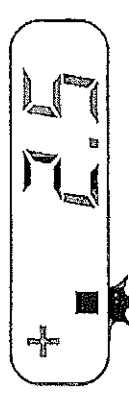


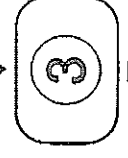
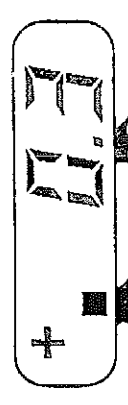
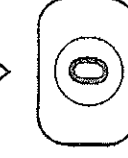



- Operation selected**
- Action**
This column indicates steps used to execute the operation selected. The rectangles indicate which key to press. Proceed step by step following the arrow (point 5) and check the result of each step on the read-out.
- Secret key**
The secret key, as its name indicates, cannot be seen. It is located between key «3» and the «Speed» key (drawing B).
- Clear and Reset to Zero key**
Pressing this key removes the values previously inserted. You can now enter new values.
- Arrow**
The arrow indicates the next step in the programming procedure. Before moving to the next step check on the read-out display that the current step has effectively been implemented.
- «Enter» key**
At the end of a programming sequence (functions 6 to 10 are not programming sequences but simply instructions to execute operations which have been programmed) this key enables the programmed values to be stored in the memory.
- Read-out display**
The dynamic read-out and the flashing lights on the keys on the right hand side of the keyboard indicate the action that has been implemented.
- Buzzer**
When the buzzer is ON it signals that a key has effectively been pressed. When OFF, it continues to signal activation of the «Secret» key. In the actions described in 1 to 12 below, the buzzer is presumed to be OFF.
- Flashing decimal point**
The decimal point flashes throughout the whole programming phase.
- Programming «indicator»**
11. $\ast + / \rightarrow$ sign
This sign shows the over or under tension selected.
- Control display**
The thick line which surrounds this step in the display column indicates the displayed values which must be controlled before executing or memorising the operation.





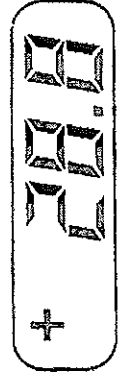
ACTION	DISPLAY



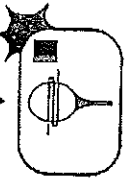



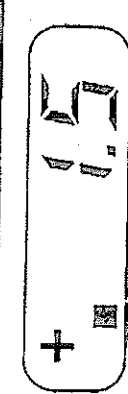

2	
ACTION	DISPLAY
	
	
	
	

3	
ACTION	DISPLAY
	
	
	
	

4	ACTION	DISPLAY
		
		
		

5	ACTION	DISPLAY
		
		
		
		
		
		

6	
ACTION	  
DISPLAY	 

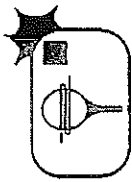
7	
ACTION	    
DISPLAY	  

8	ACTION	DISPLAY
		+ 25.8
		+ 1.5
		+ 0.0
		+ 0.2
		+ 2.0
		+ 25.8

9	ACTION	DISPLAY
		+ 25.8
		+ 2.0
		+ 0.0
		+ 0.1
		+ 1.5
		- 1.5
		+ 25.8

10

ACTION

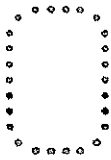


DISPLAY

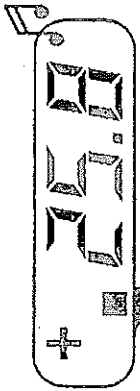


11

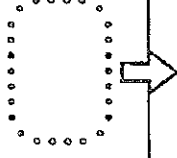



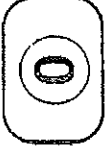



ACTION



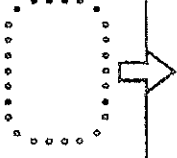
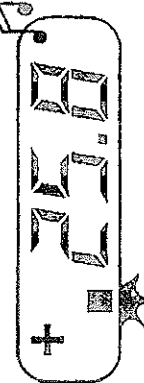

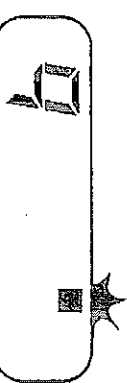

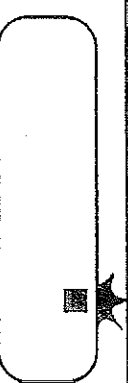


DISPLAY


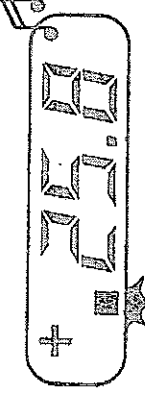




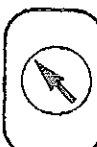



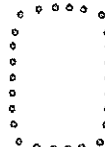
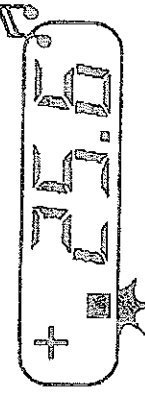

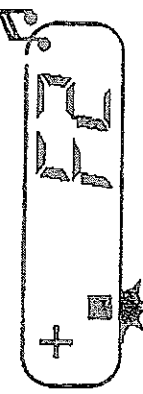

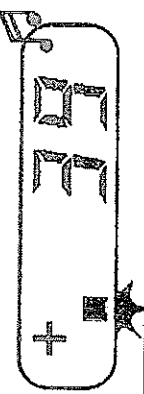
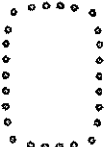

12

ACTION	DISPLAY
	
	
	
	

13

ACTION	DISPLAY
	
	
	
	

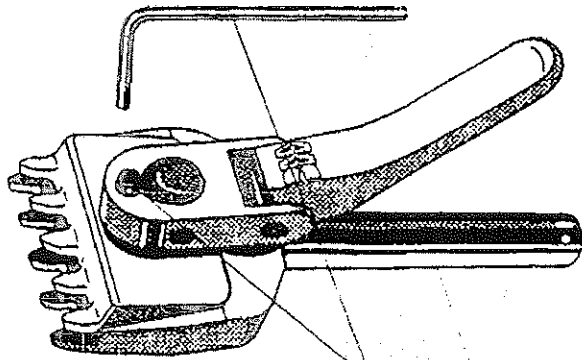
14	
ACTION	DISPLAY
	
	
	
	

15	
ACTION	DISPLAY
	
	
	
	

CLAMP ADJUSTMENT

Before adjusting clamp, take off the post plastic protection and thoroughly clean both clamp support inside barrel and clamp post with alcohol : for corrosion prevention during shipping, both are treated with grease. It is necessary to clean them both before inserting clamp in its support.

You will use the provided Allen key to adjust the jaws grip to the exact gauge of the string you will use. This adjustment will have to be set again when you use a string of different diameter.



adjustment key and nut

clean both post and inside of reception barrel

AFTER SALE SERVICE

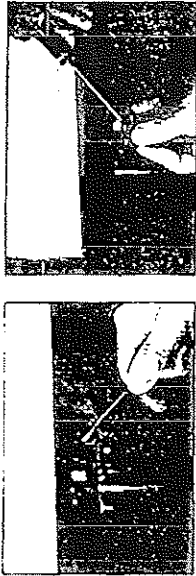
In case of machine breakdown, BABOLAT VS after sale service will do its best to help you to solve your problem, repair the machine or send the necessary spare parts if you can repair yourself ; before sending the machine back, always phone the nearest BABOLAT VS correspondent. He will ask you details about the machine, and may ask you to try some actions and their results : it is therefore important to keep the machine as close to the phone as possible, have this booklet ready to point out the exact faulty parts. Every machine has a number : write it under here, as it will be necessary for our agent to help and solve the problem. BABOLAT VS will determine whether to send you a maintenance engineer or ask you to send the machine back in one of our repairs-shop.

machine n°

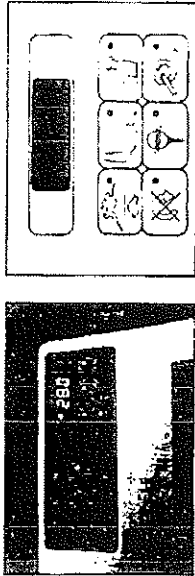
Date/place of purchase:

PHOTOS : NOTICE TECHNIQUE SERIE 3000
PHOTOS : OPERATING MANUAL MODEL 3000 SERIES
BILDER : BE TREIBS ANLEITUNG MODELL SERIE 3000
FOTO : ISTRUZIONI PER L'USO SERIE 3000
FOTOS : MANUAL DE INSTRUCTIUNIS SERIE 3000

5. MONTAGE - ASSEMBLY - MONTAJE - AGGIUNTA DEI COMPONENTI



6. FONZIONAMI NEAPP RATIONIME TRIBENAUITE JEN/ONAVIENI/O/FUNZIONAVIENI/O



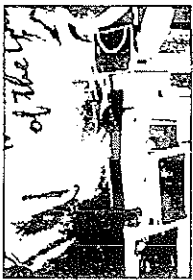
7. MISE EN PLACE DE LA VIBRE EN PUSANT LE RACK EN THE MACHIN/SAUF L'AGE DES RABINEUS
POSIZIONAMENTO DEL TILT APK COLARACON DEL MARCO



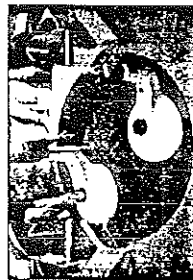
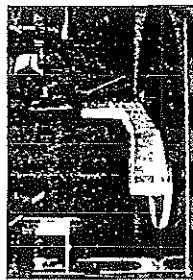
8. DEMONSTRATION DE L'ASSEMBLAGE DU CADRE AVEC LE SERRAGE/GABINAGE/DEBARAGEMENT
SMONTAGGIO DEL TELAMENTO/SMONTAGGIO DEL MARCO



9. VISE EN TUNSDN III T A C O R D E S I R I N G T E N S I R N I N G A N N I E N D I E R S A L U N Z I H R A G G I O
DELLA CURVATA. TUNSDN EN EL CURDATE.



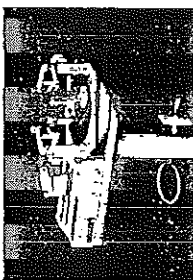
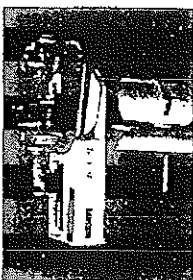
10. SISTEMI DI PORTI PER I MERSI E I CORDI AMP. SISTEMI ELETTRICI TO THE MONOGRAMMO
DAL LANGRINSYU MESSIEMA DI PORTA PINZA MONO SISTEMA DE MANDIO



11. EN RE: H I N S E R V I C I N G A N D M A I N T E N A N C E P I L L E G H I N W I S E M A N T E N Z I O N E A M I E N T A M I E N T O



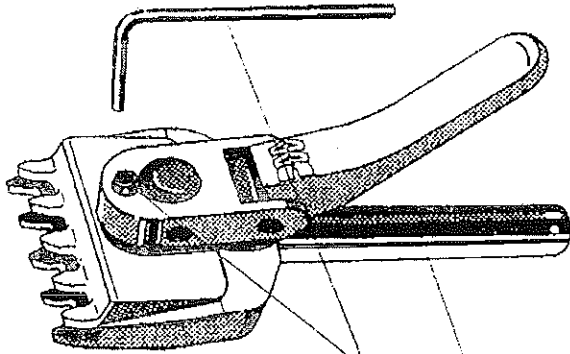
12. DEJ IONSOP I JONS ZUBEHORPROGRAMMENTRAVACENSORIPORCONE S



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