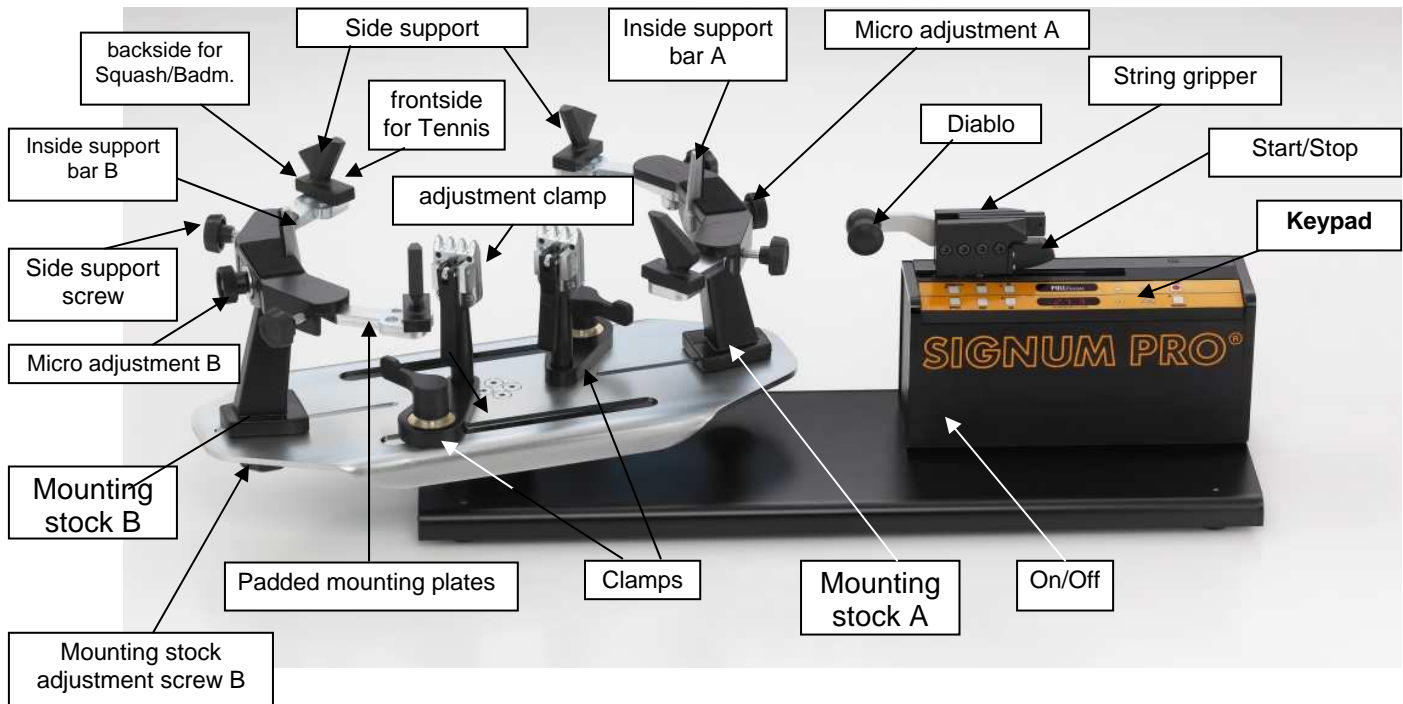
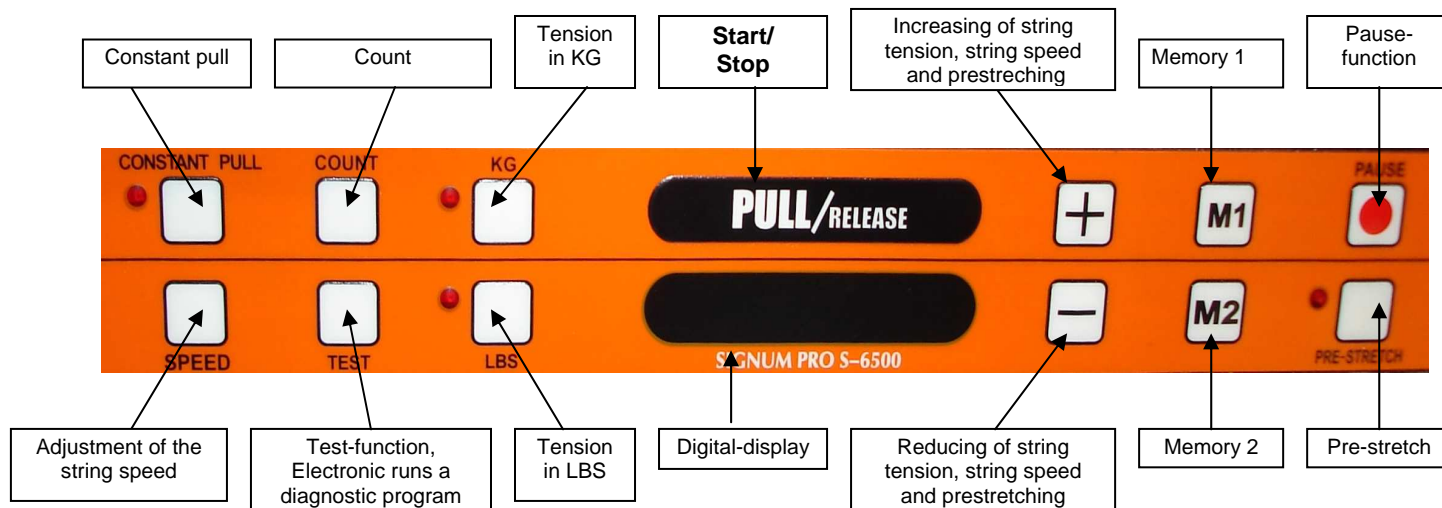


Users Manual S-6500



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1. Technical facts / Keypad



- **Power supply:** 90-240 V (S-6500 uses a self-adjusting power transformer).
ON/OFF switch on the front side.
- **String tension:**
Choose **LBS** or **KG**. Press the keys **+ / -** to set up the tension.
- **String Speed:** Choose the string speed with the key **SPEED** and **+ / -**. 1 is normal speed, 3 is highest speed.
ATTENTION: If you string **High-Tech CO-Polyesterstrings** as e.g. **SIGNUM PRO Poly Plasma**, use **ONLY normal speed 1**, NOT 2 or 3, because string could break.
- **Prestrech:** Set with the key **PRE-STRTECH**. Suggested for Nylon or Basic Polyesterstrings, because these strings have a high tension loss. There are 5 possibilities, prestretching with 0% (without) , 10%, 15%, 20%, 25%. Prestretching with 10% means that the machine will pull with 10% higher string tension for some seconds at first, then relax back itself to the original tension.
ATTENTION: If you string **High-Tech CO-Polyesterstrings** as e.g. **SIGNUM PRO Poly Plasma**, **DON'T** use Prestretching with 10% or more, **use 0% only**, because string could break.
- **Memory Keys M 1/2:** To store the current tension setting press the button **M1** or **M2** until you hear a **double beep**.
- **Constant Pull:** After reaching the set tension the electronics maintain the set tension even if the string stretches. To activate it press the button **CONSTANT PULL** and check that the red light is on.
- **Pause:** Hold it down to ease the gripper forward.
- **Count:** If you press the button **COUNT** you can see the number of pulls of each string session.

2. Operation instructions

- 2.1) Plug the power supply into the back of the S-6500.
- 2.2) Press the switch ON.
- 2.3) The String gripper will move slowly and the display shows a series of numbers as the motor check its functions.
- 2.4) Choose the tension in LBS or KG.

3. Mounting the frame

Mount the frame on the mounting stock A and B. The inside support bars A and B have to be fixed at the top and bottom inside of the racket frame, exactly in the middle of the racket.

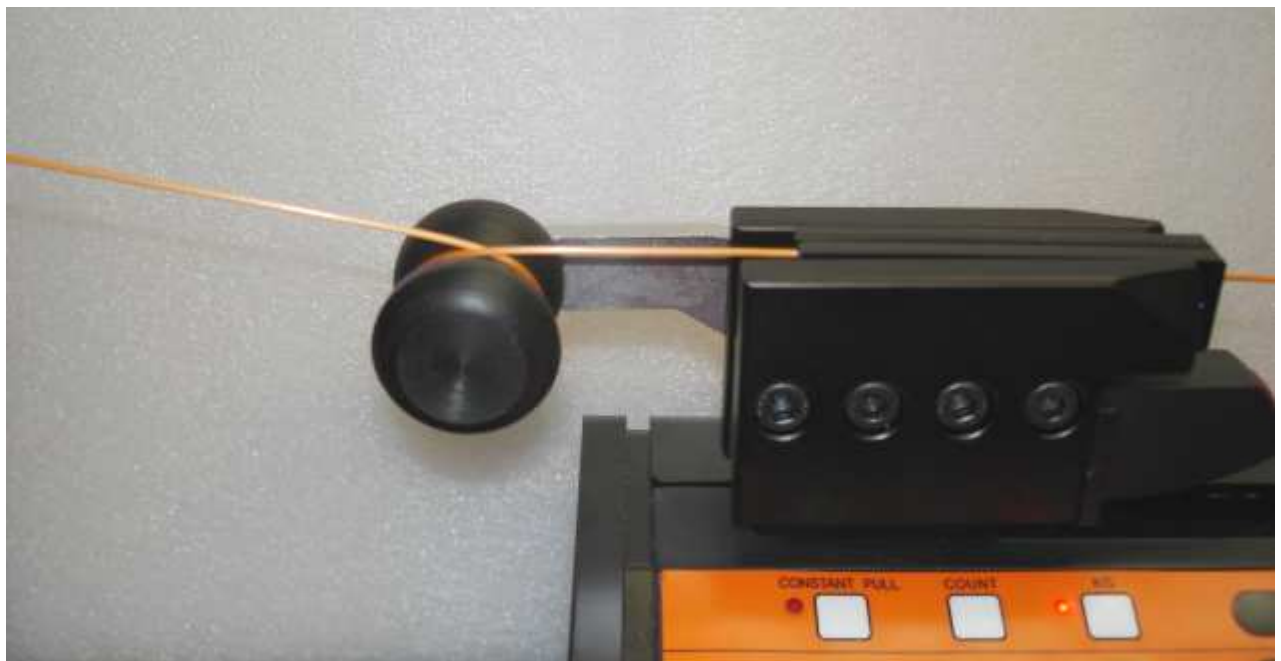
ATTENTION: Take care that the inside support bar A and B aren't tightened with the micro adjustment screws A and B BEFORE mounting the frame, then it could be difficult or impossible to string the first and last cross string of the racket. They have to be on a position which is at least 2-3 cm in direction to the center of the frame.

Then move the padding mounting plates outside on the frame by turning the side support screws, that the frame is fixed inside the 4 side supports.

4. Stringing

It's suggested always to use the Diablo in the following way:

Wrap the string from the racket once clockwise around the bobbin and then into the string gripper.



Put the string into the string gripper with the right hand, press the both halves of the string gripper to the left side with the left hand and press the **START/STOP** switch on the string gripper OR the **PULL/Release-Button** on the key pad with the right hand, then the tension head pulls the string and you can take away your both hands.

When the correct tension is reached the tension head stops pulling and you hear a **double-beep**. If the string loses tension later, the tension head pulls again to compensate the lost tension (constant pull).

If the tension head stops at the end position and you hear a **one-time beep** and the display shows the error code "7", this indicates the end of the track was reached before you achieved the set tension.

Usually this can happen when the string slips through the string gripper or clamp, or you string in 1 pull 2 main strings at the same time of a may very elastic string at a high tension. So take care that the string doesn't slip anywhere and string the main strings 1 by 1 only.

5. Clamps

By turning the adjustment screw of the upper part of the clamp you can adjust the distance of both halves of the clamp to the requested string diameter.

On the one hand the string shouldn't slip through the both sides, on the other hand it shouldn't be pressed too strong. Both can damage the string that it could break. So test the right adjustment at a piece of string before start stringing.

To fix the clamp, at first lock the upper part of the clamp in pressing the handle, then lock the handle of the clamp base

6. Calibration

The right tension has to be controlled before sent out the machine.

1.) Set up any tension, for example 28 kg.

2.) Use an accurate tension calibrator and mount it between the clamp and the string gripper. Press the **START/STOP** button to activate the tension pulling.

3.) Check whether the tension indicated by the tension calibrator is the same as the tension setting of the electronic tension head. **(Use an precision calibrator, a cheap spring calibrator is not considered accurate enough to calibrate the S-6500).**

4.) If a calibration is really necessary, this is the procedure:

4.1) Start pulling with the **START/STOP**-Button as usual, when the unit has reached the set tension you will hear the "double-beep".

Then press the **PAUSE**-Button until you hear a "beep".

4.2) Press the **TEST**-Button. The display will flash the number-code „111“ to confirm that you are in the calibration mode.

4.3.) Use the + / - keys to make the display match the value of the calibrator.

4.4) To save the new calibration value press the Button **TEST** again. Now you have 9 seconds (as counted down on the display) to press the **SPEED**-key, then the **LBS**-key. The display will flash the number-code "999" to indicate the new calibration is saved.

4.5) At any time during the calibration mode, pressing the **COUNT**-key will return to the factory settings.

7. Operational notes

Don't cause damages with shaking the machines, furthermore take care that the machine doesn't fall down. Don't load heavy things on the electronic unit and keep it clean.

8. Warranty

If Service should be required on this equipment, please use your authorized SIGNUM PRO dealer or the manufacturer, only. If you would open the electronic unit by yourself the warranty expires. The time of warranty is 24 months, excluding wear parts.