ALPINE 2600 Stringing Machine User's Manual



1. Components

Please inspect your package upon receipt and locate all components.



2. Assembly

Your machine is shipped one carton and comes in four parts: base, column, tool tray, machine body and accessory bag. Remove all parts from the shipping carton.

- 1. Assemble the column to the H-shaped base with 4 Allen Head screws by 6 mm T-shaped Wrench and 12/10 mm wrench.
- 2. Screw the reel holder into the column.
- 3. Mount the tool tray on the column by fastening with four 6 mm screws.
- 4. Insert the machine body into column top and allow setting.
- 5. Adjust the machine body to the desired height and lock into position with height adjustment knob.
- 6. Pull up the clamp handle make the clamp foot opens to attach the clamps to each of the glide bars.

3. Keypad operation instruction:

Step 1 : Battery Setting

Set one dry battery (9 volts) beneath the tension head. **Caution :** position + and - correctly.







Step 2 : Power Button

To turn the machine on, press the black POWER-KG/LB button for 1 second until a tension appears on the display. **NOTE** the power save function has been set for 1 minute at factory before shipping so the display will shut down automatically after 1 minute. To motivate the display, repeat the procedure step 2 again.

To turn power off, press the black POWER-KG/LB button for 2 seconds until OFF appears on the display. Or wait for 1 minute till the power save function is motivated and display will shut down automatically as well.





Step 3 : KG/LB Button

Press the black POWER-KG/LB button for 0.5 second to change tension display from KG to LB. To set tension unit from LB to KG, press the black POWER-KG/LB button for 0.5 second again.





4. Tensioning

Step 1 : Setting Tension

Set the tension by rotating the tension setting knob counter-clockwise to increase the tension or clockwise to decrease the tension until the desired tension appears on the display.



Step 2 : Pulling the Strings

To pull the string, continue rotating the tension head crank/handle backward until the tension locking lever clicks out. This locks the tension head to the tension rail.



Step 3 : Releasing the Strings

To release the string after clamping, hold on to tension head and push tension locking lever back up into the catch on the tension head. Lift the string out of the string gripper for the next hole.





5. Adjusting the Gliding clamps

If gliding clamp is slipping on glide bar, adjust the gliding clamp as shown. With one hand grasp clamp firmly, turn bottom nut on clamp clockwise until clamp grasps glide bar securely.



6. The Brake

The brake is used primarily when tying knots and when calibrating. The turntable should turn freely during stringing tensioning to allow proper alignment of the racquet.

7. Tying Knots



Knots normally involve an anchor string (a string that is already installed and tensioned) and a tying string (a loose string end that is threaded through the same hole as the anchor string and wrapped around the anchor string in a self-locking pattern). For tight knots, it is also desirable to use tennis awl to pull on the string. For safety, pull down which is away from your face. Also for safety, it is advisable to wear protective eye glasses while stringing.



7. Mounting the Racquet

- 1. Begin by locating the center of the racquet at the head and throat. The center is usually indicated by a mark at the head of racquet.
- 2. Head hold-down clamp hold tightly for stringing. It must loosen to allow all supports to touch the racquet. Please center of the racquet frame on the side support arm of the head mounting stock. Screw head hold-down clamp to fix position.
- 3. Adjust bottom of the throat mounting stock to ensure the racquet frame is parallel to the frame stand (vertical adjustment). Lock into position with Allen wrench.
- 4. Adjust top of the throat mounting stock to accommodate various sized frames (horizontal adjustment) and lock into position with Allen wrench.
- 5. Insert throat hold down clamp into hole and press the silver button with left hand. Fasten the throat hold-down clamp into position. Check frame positioned securely again by tightening up both the head hold-down clamp and throat hold-down clamp.

Head Hold-down clamp Side support Side support





Racquet is now mounted securely



8. Racquet Patterns

Each racquet has a stringing pattern that is specified by the racquet manufacturer. You need to check with racquet manufacture for your racquet either by racquet's manual or manufacture's web site or call manufacture for assistance.

To interpret stringing patterns correctly, it is important to know what each part racquet is called. The tip of racquet is know as the "HEAD" and is referred to as "H" in stringing patterns. The bottom of the racquet head is known as the "THROAT" and is referred to as "T" in patterns. The strings that run from the throat to the head of racquet are known as the "MAIN" and are referred to as "M" in stringing patterns. The strings that run from stringing patterns. The strings that run from side in the racquet head are known as the "CROSS" and are referred to as "X" in stringing patterns. The holes in the racquet head are referred to by number, counting in either direction from the center at the head (e.g. 7H) or the throat (e.g. 7T).

RACQUET	TENSION LBS		PATTERN M x X		START (LOOP)		MAIN SKI	IS T P I	IE OFF //AINS	LENGTH FT-IN
PRINCE										
Accuracy 110	57-67		16x19		Н		8T & 8	зн	6H	36'
ONE PIECE								TWO PIECE		
SHORT SIDE FT-IN	START CROSS	LAST CROSS		TIE OFF		LE N	NGTH // x X	START CROSS	LAST	TIE OFF
9' 6''	8H	8	Т	11T		19	9' x 18'	8H	8T	5H, 11T

Patterns Example:

Notice that the stringing pattern for PRINCE Accuracy 110 as patterns example contains information for one-piece stringing and two-piece stringing. One-piece stringing is the most common, but it is not always the best. A description of the two methods of stringing follow along with a few of their advantages and disadvantages. When all is said and done, both methods yield excellent results. To avoid unwanted stresses, some racquet manufacturers occasionally specify only one method for stringing some of their frames.

One piece stringing is done with a single piece of string that is tied in two places only. The string is divided into what is known as a "short side" and a "long side". The short side is used to string the mains on one side of the racquet head, ending in one tie off, while the long side is used to string the mains on the other side as well as all of the crosses ending with the other tie off.

.+ Two knots take less time than four (but don't worry, tying knots is really easy).

.+ String usually comes in one coil and can be used with less cutting this way.

.-The same type of string needs to be used for the mains and the crosses.

.-The long side of the string is a bit cumbersome when lacing the mains

Two-piece stringing utilizes one piece of string for the mains and another for the crosses. The piece used for the mains is divided into two equal parts around the center point of the racquet and is laced symmetrically on both sides of the center point, ending in a tie off at each end. The crosses are started at one end with a "starting knot", and are weaved to the other end where they are tied off.

.+ Allows the use of different strings for the mains and crosses.

.+ Neither piece of string is very long, making it easier to lace the mains.

- Unless the string is packaged as a hybrid, a bit more measuring is necessary.
- Four knots are more intimidating for beginners than two (despite our reassurances).

9. Stringing Instruction

- 1. Stringing normally begins with the mains at the center of the racquet and proceeds outward to the sides of the frame. Measure enough string for the short side according to the racquet pattern and form a loop at the head or throat according to the pattern for the racquet you are stringing. For two-piece stringing, the string on each side of the loop is of equal length.
- 2. Place a clamp on the loose string on one side of the loop and tension the string on the other side. The friction on the string as it loops the grommet is necessary to avoid slippage at the clamp. This is a good time to check the adjustment of the clamps. They should pinch the string securely but not excessively. If you see clamp marks on the strings, reduce the tight-ness of the clamp by turning the adjusting screw counterclockwise.
- 3. Allow the string gripper to come to rest then clamp the first string with the available clamp. Put the tensioner in reverse after clamping the string. Now tension the other string and move the clamp that was at the throat to the head. The thickness of the clamps necessitates staged placement at the beginning. Otherwise clamps should be placed as close to the rim as possible, with touching it.
- 4. To minimize stress on the racquet head, it is desirable to work outward from the center symmetrically. Rotate the racquet and lace one string on each side of the center line then tension and clamp them one after the other. Take care never to release tension in the tensioned string bed. You will have to start from scratch again.



- 5. From this point on things get repetitive for a while. What is important is to lace and tension one string at a time in alternation on each side of the center line. You don't want to miss skipping holes that will be used for crosses (holes 7 and 9 at the head and throat in this frame). Just between you and us, a dead give away of inexperienced stringers is that they count their strings at practically every tensioning operation, so if you have to do it, do it discretely.
- 6. The pattern tells you where to tie off the short side. Note that there is already a tensioned string in this hole and that the hole is larger than most other holes to accommodate two strings. Recognize tie off holes is a valuable skill when a racquet pattern is not available.
- 7. Remove the clamps and gliding bars from tray table. Installing the clamps and glide bars to the tray table in cross way to strung the cross strings. Tension and clamp the first cross. If you use a different gauge of string for the crosses than the mains you may need to re-adjust the tightness of the string clamps for the crosses. In general it is better to start under the first main because the last weave will be over the last main, making it easier to insert the string in the grommet hole. Be mindful of the fact that the first and last few crosses do not start in the same orientation (over or under) the first main they encounter. Note this as you weave the second cross.
- 8. We are going repeat procedures again: weaving, tensioning and clamping in successive open holes. This is where good stringing technique is important. On occasion you will encounter heavy string traffic around holes you need to put a cross through. Use the tip of an awl to open a passage. Also, when traffic gets heavy do not allow strings to cross over each other on the outside of the frame.
- **9.** The crosses are often crooked at the end of a string job. Straighten them and then look carefully at the string bed. Make sure there is no missed weave.

10. Tension Calibration

Step 1 :

Set the tension scale on 60 lbs. Place a string attached to a tension calibrator in string gripper. Tension calibrator will indicate the pounds of tension on tension head under actual stringing conditions. Pull string until the locking lever releases. If it releases before 60 lbs or after 60 lbs., the following adjustment is needed. **CAUTIION:** Be sure to release string holding tension calibrator. You are now ready for adjustment.



Step 2 :

Loosen the safety screw A. If the locking lever release before 60 lbs., turn the adjustment screw B counterclockwise until the scale reading matches the calibrator's; if the locking lever release after 60 lbs., turn the adjustment screw B clockwise. WARNING: Be sure to tighten the safety screw A after the adjustment has been made.



11. Maintenance

Adjustment of Glide Bars

When glide bars will not slide smoothly, adjustment of glide bars is necessary. First, check whether or not the slides are parallel to each other, if not, loosen screws under the slides. Adjust the slides to make sure that they are parallel. If this doesn't solve the problem, loosen screws underneath the tray table and adjust the rail. There should be a 0.01 to

0.02 mm end clearance between the slide and rail so that glides will move freely.

Lubricating the machine

Use a modest application of light machine oil on the rail to ensure free movement of slide and rail. Also use a small amount of light machine oil on bearing wheels as required. **WARNING**: do not lubricate the brake

Cleaning the machine

Glide bars and clamps must be kept free of wax to prevent slippage. Use alcohol or light, nonabrasive cleaning detergent to remove wax built-up and dirt from the glide bars and attaching areas of the string clamps. WARNING: Do not use sandpaper or any other abrasive material on the glide bars and attaching area of the string clamps.