



# Flame

## Stringing Machine Manual

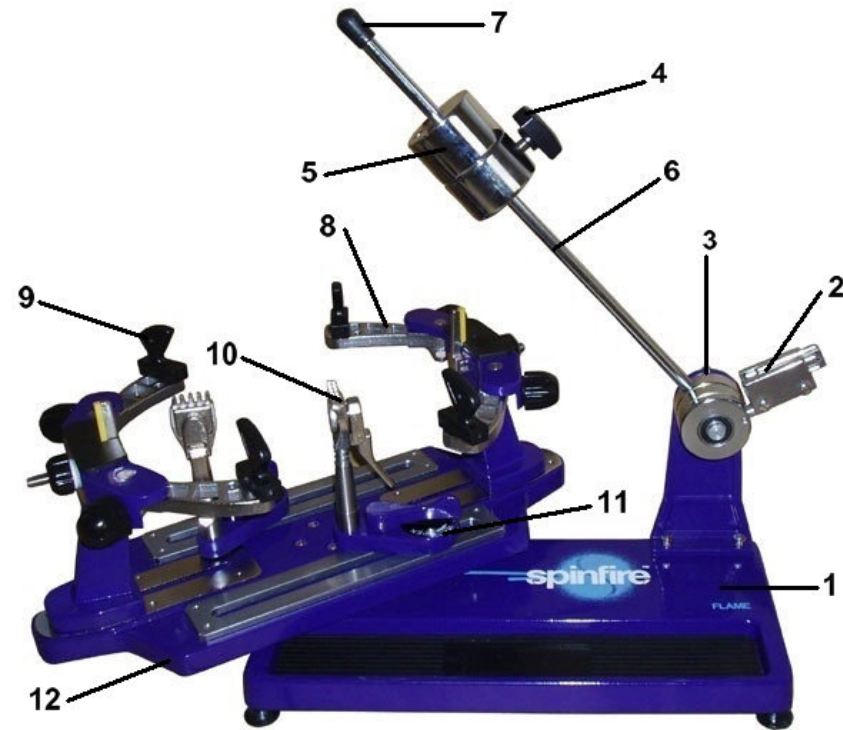
Installation and Operation

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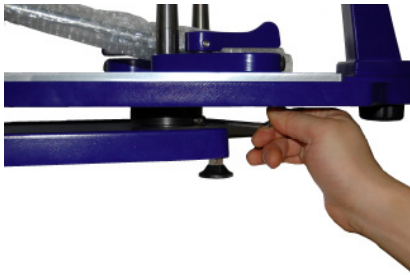
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## Description of Parts



- |                          |                         |
|--------------------------|-------------------------|
| 1. Machine Base          | 8. Side Support Arm     |
| 2. Linear String Gripper | 9. Angled Frame Support |
| 3. Tension Bar Drum      | 10. String Clamp        |
| 4. Drop Weight Knob      | 11. Base Clamp          |
| 5. Drop Weight           | 12. Turn Table          |
| 6. Tension Bar           |                         |
| 7. Tension Bar End Cap   |                         |

## Assembly Instructions



**Step 1:** After opening the box, remove the installation and operation manual. Remove the box which is wedged inside the top piece of foam. Finally, remove the machine from the box.



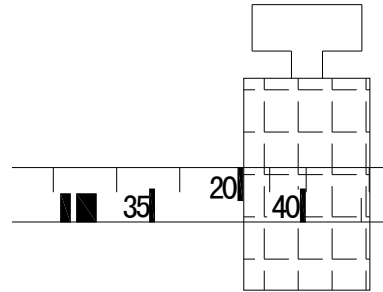
**Step 2:** Take the 4mm Allen Key (15) and insert it into the internal adjustment screw. This is located under the turntable and will allow the turntable to spin freely.



**Step 3:** Take the *drop weight knob* (4) and insert it into the hole of the *drop weight* (5).

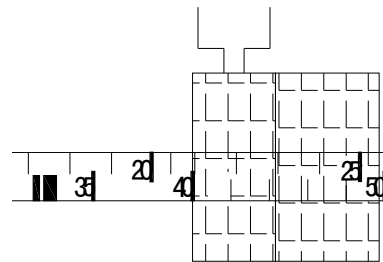


**Step 4:** Take off the *tension bar end cap* (7) and place the *drop weight* (5) onto the *tension bar* (6).



### Step 5a: For Badminton

Make sure that you only use 1 part of the *drop weight* (5). You can split this into 2 using an Allen Key. Use the piece which fits the *drop weight knob* (4). To set the desired tension, position the *drop weight* (5) at the desired poundage. See the example (left) to set the tension for 20 pounds.



### Step 5b: For Tennis

Tennis requires both parts of the *drop weight* (5) to be connected (default setup). To set the desired tension, position the *drop weight* (5) at the desired poundage. See the example (left) to set the tension to 40 pounds.



**Step 6:** Make sure the *tension bar* (6) is outstretched from the machine. Take the *5mm Allen Key* (14) and screw in the screw shown in the photo. This will prevent the *tension bar* (6) from dropping towards the machine, allowing it to rest in an upright position.

**Step 7:** Turn the two *frame supports* (11) up the right way (they come positioned upside down when packaged). These are located at the 12 and 6 o'clock positions. To do this, unscrew the knob on the end, pull the *frame support* (11) out and place it back in this time pointing upwards and replace the washer and screw.

#### **A few things to note:**

1. The tension is measured from the bottom of the *drop weight* (5) when on the *tension bar* (6).
2. **Do not** tighten the *drop weight knob* (4) onto the sticker showing the tension, otherwise you may damage it. Make sure that you tighten it against the back of the *tension bar* (6).

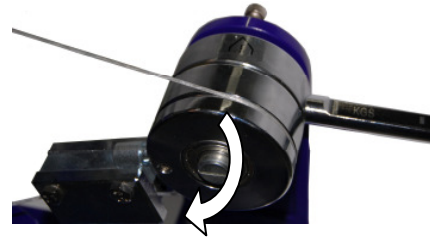
## Frame Mounting and tensioning the string



**Step 1:** Insert the *angled frame supports (9)* into the appropriate slots located on the end of the *side support arms (8)*. The two slots are designed to accommodate most racquets.



**Step 2:** Place the racquet on the machine. The 12 and 6 o'clock *frame supports (11)* should be on the inside of the frame. The *angled frame supports (9)* should be on the outside. Tighten the 12 and 6 o'clock *frame supports (11)* until they are just touching the frame. Then tighten the *angled frame supports (9)* until they are firm (finger tight). Go back to the 12 and 6 o'clock *frame supports (11)* and tighten them to finger tight also. The fit should be snug, but use caution. NOTE: Over-tightening can



**Step 4:** Use your hand to let the *tension bar (6)* drop down allowing gravity to take over which applies tension to the string. The tension will be correct when the bar is parallel with the ground (perfectly horizontal / level).



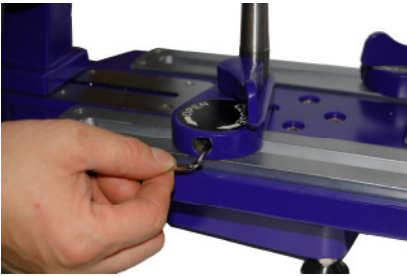
### Step 3:

This manual does not explain how to string a racquet, simply how to use the machine. With the *tension bar (6)* upright, place the string in the *linear string gripper (2)*. Using your finger, press the internal string gripper back to grab the string.

## Base Clamp adjustment



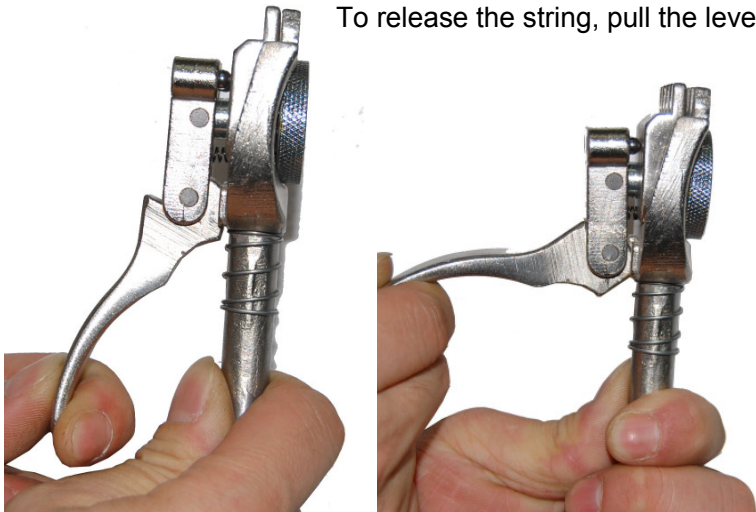
This only needs to be done if your *base clamps (13)* are getting loose. Locate the black cap on the backside of the *base clamp (13)*. Carefully pull it off.



Turn the *base clamp (13)* so that the outer port is aligned with the inner port. Take the *3mm Allen Key (14)* and insert it into the internal adjustment screw. Turn clockwise to increase tension. The ideal locking position for the lever should be down the center of the *base clamp (13)*.

## Preparing the clamps

To clamp the string, squeeze the lever closed.  
To release the string, pull the lever out.



To tighten the *string clamp (10)*, turn the dial clockwise. To loosen it, turn the dial counter-clockwise.

**NOTE:** Before stringing a racquet, the tension on the *string clamp (10)* has to be adjusted in accordance with the type of string gauge being used. If the string is of a thin gauge (eg, 16L, 17 or 18) then the *string clamp (10)* may need to be tightened. If the string gauge is thick (eg, 15, 15L or 16) then the *string clamp (10)* may need to be loosened.