

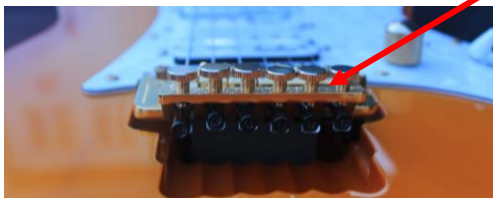
Artes Sensus HSH 4-14 PushPull FR II, double string lockers, 2014

How to tune/change strings on a Floyd Rose Trad Tremolo with 2 stringlockers and how to set up the guitar.

A. To tune all the strings:



1. Release the upper three (3) string locking screws using the Allen key - see the red arrow, about a half turn so that the strings are moveable. **(Press the Allen key firmly into the screw)**



2. Screw up one of the bridge tuning pegs to its highest position. Then screw it down to a little less than half.

3. Screw the remaining tuning pegs to the same location as the first you set.

4. Start by coarse tuning with the tuning pegs on the

guitar head. Do not forget to stretch the strings several times. Tuning in the order low E, change to high e, then A, B, D and G until you are satisfied.

5. When you are satisfied with the tuning, thighten the upper three (3) string locking screws using the Allen key. Tighten the blocks so that the strings do not run thru. **(Press the Allen key firmly into the screw)**

6. Fine tuning on the tremolo bridge, with the fine tuner pegs

Other:

The same applies if there is a single string that need to be coarse tuned, loosen the 3 screws on the neck locker, and turn fully up that bridge string fine tuning peg, and then down to less a half, coarse tuning, lock the neck string locker, fine-tune with the bridge string fine tuning peg.

B. Replacement of all the strings. The method, one string at a time:

1. Release the upper three (3) string locking screws using the Allen key.

2. Start by loosening the low E string with the head tuning peg. Cut the string on the middle of its lengths.



3. Screw up the low E tuning peg to its highest position. Then screw it down to a little less than half.

4. Screw the remaining tuners to the same location as the first you set.

5. Loosen the black string lock screw on the bridge, see above, with the accompanying Allen key, and not more than that the string goes out of its saddle track when you pull straight up. Also remove the other half of the

string at the head. **(Press the Allen key firmly into the screw)**

6. Cut the ball end of the new string, about 2 mm from the ball.

7. Press the string straight down into the saddle string lock, as much as it goes, and tighten the saddle locker with the black Allen sqrew so that the string is locked firmly. Make sure the string is in front of the little black plate in the saddle.

Bend the string forward when it is locked in the saddle locker.

8. Cut the string to the length you need to attach three to five times around the head tuning shaft. Thread the string first through the neck string lock. **(Alternatively, you can completely remove the string lock blocks and put them back after you finished the rough tuning.)**



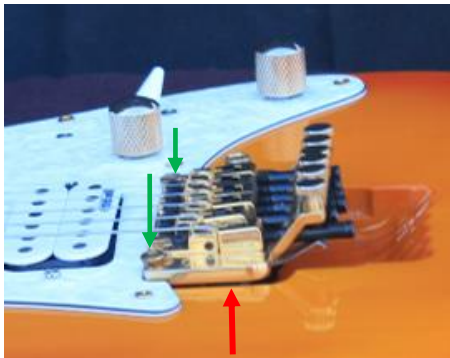
9. The strings must be threaded according to the arrows in the picture to the left. Thread thru the hole from the right, bend the string end a few centimeters straight up, and begin to wrap over of the hole - below the rolled-up string, and collect down on the shaft. Use the supplied string crank for quicker course tuning.

10. Do the same with the remaining strings, one by one. When you are finished with the low E string, go to the high e-string, then switch to A, then B, then D, then G, until you are satisfied. Since Floyd Rose is a floating tremolo, this is considered the best method. Stretch the strings and coarse tune at least two or three times before locking the neck string locker.

11. When your coarse tuning is complete, reinstall the neck string lock blocks and tighten them so that the strings do not slip. Then you fine tune on the bridge tuner pegs.

Other:

After the string changes, you should check that the bridge sustaine block is perpendicular to the strings. Sustainblock= The metalblock where the tremolo springs is attached on. You can see that block



when you open the lid attached with six screws on the back of the guitar. Keep up the guitar as shown to the left, and then eye of if the sustain block

is perpendicular to the strings. See red arrow left. If you need to adjust the bridge to perpendicular position, you will see the springs go from the sustain block to a

jumper at the top of the hole. You screw the two screws a few turns in or out, and check at the same time that the sustain block is perpendicular to the strings . Then you do a coarse tuning and check again that the sustain block is in the right angle. Repeat until you have the right angle and the guitar is coarse tuned. When you're done, lock the neck string locker and set the fine tuning on the bridge fine tuner pegs. This setup will you normally do only once and it is associated with changing dimensions of the strings.

Finally, since the Floyd Rose tremolo is floating, it sits suspended on two special screws and two knife edges, see the green arrows, and are congested ahead of the taut of the strings. These screws adjust the height of the bridge and thus the height of the strings, but the adjustments should not be made when the bridge is congested by the taut strings, you should first slacken the strings and then lower or raise the bolts with a predetermined measure.