



STRING CHANGING TIPS

Tools for changing strings:

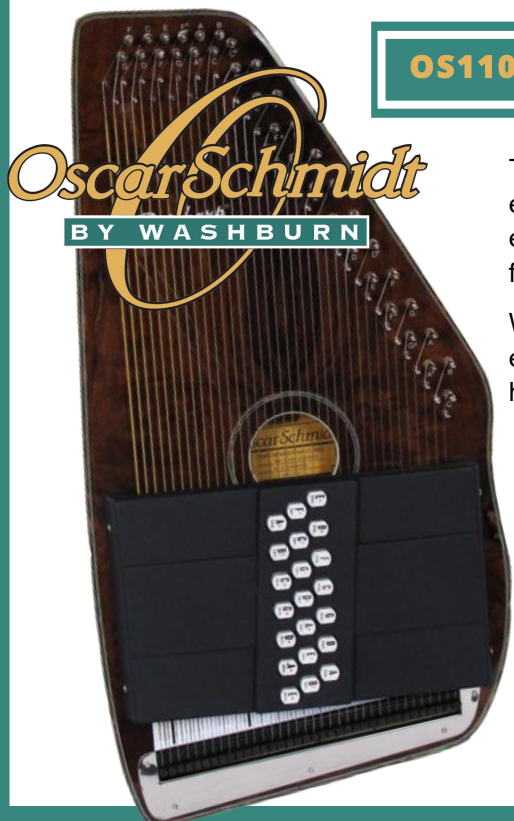
- Needle nose pliers
- Wire cutters
- Tuning wrench
- Fine tuning wrench (if fine tuning system is installed)
- Electronic tuner



CAUTION: PLEASE WEAR EYE PROTECTION WHEN REMOVING OR INSTALLING STRINGS!

- Remove chord bars and set them aside, you will need to reinstall them in the final step.
- Loosen all strings one half turn first, keep enough tension on each string then unwinding and loosen all again three full turns. Depending on how the harp was strung initially, the strings may simply pull out of the pins. Grip the string close to the pin so the string will not fly.
- If the strings do not pull out at this point, and you need to cut them, cut them near tuning pins. Then carefully pull the cut strings out of pins.
- Check the tuning pin position. Adjust them to all be approximately 15/16" high, before inserting strings.
- Now is a great time to clean up your Autoharp. A little mild wood cleaner and polish is a good idea, or you can wax it with a good guitar wax. Clean around the tuning pins with a soft bristle brush. Model "B" strings should anchor firmly in their slots, Model "A" strings anchor over the anchor pins.
- Fine tuning systems require the cam be removed to thread the string through it, and then reinstalled. Try to seat the ball end into the fine tuner cam as well as possible. The finer strings will seat easily. For the larger diameter core wires, bend the tail of the string (ball end). For the largest (#14 through #17) Bend the tail up so it is parallel to the string. This gives the minimum thickness (double thick wire) to seat in the fine tuner. Insert the screw and screw it down until it bottoms out, then back it off three full turns. If the string is not fully seated, it will seat itself as you tune.

- Starting with the smallest string use a nipper gauge tube to measure the proper string length (a drinking straw cut to 2" in length will do). Pull the string past the tuning pin to measure, and cut the string 2" past the pin. Cut the string to length, but don't thread it through the tuning pin. With needle nose pliers, grab the string at about 3/16" from the end, then bend the string into a J shape with the bottom of the "J" the width of a pin. Insert string end into the tuning pin hole and put a little tension on string as you wind the string around it. Tighten each string, winding them snug, until it will begin to ring a tone.
- Go to next string and repeat until all strings are installed.
- Tune all strings in succession, from small to large.
- Press the strings down at the bridges to make them all uniform in height. Strings tend to arc upward at the bridge.
- Strum the strings hard a few minutes, then tune again.
- Reinstall chord bars.



OS11021FBWE Electric 21 Cord Autoharp Burl Walnut

This limited production 21- chord OS11021FBWE autoharp plays in eleven different keys. The patented chord bar configuration makes it easy to learn and to continue to play for years to come. The burl walnut finish has been a favorite of master furniture makers for centuries.

Whether you are an Autoharp player, a student of American folklore, or even a collector of antique musical instruments, you should find the history as well as the instrument itself unique.