



## JLS Valve Restringing Kit Item #206058

### Valve Restringng Guide

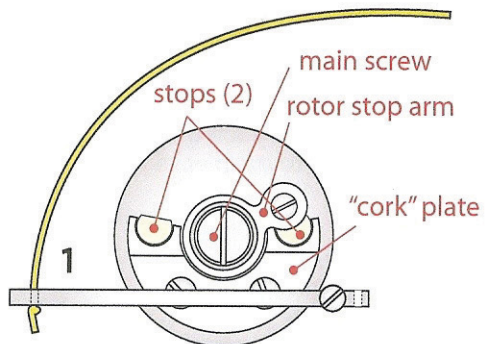
It is helpful for music educators and musicians to be able to service a rotor valve. Our Valve Restringing Kit helps you do just that.

1. Set the Stringing Jig in place over the touch piece as shown. This will keep all levers on plane with each other. (Note: if all valves are being restrung, you will determine the touch piece height when you secure the first screw in step 6).



2. Loosen the rotor stop and the lever string screws and remove the old string. Don't loosen the screws more than enough to remove the old string (we don't want to lose them).
3. Cut a new piece of string about 8 inches long.
4. Tie a knot in one end. This will act as a stopper to keep the string from pulling through, so make the knot larger than the hole in the lever arm.

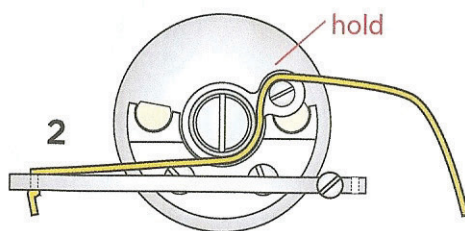
5. Thread the string through the hole as shown in fig.1.  
Tip: if you cut the string at an angle, you can pass it through the hole easier. Use a sharp razor blade to make this cut.



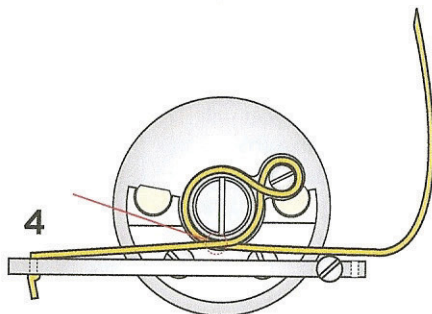
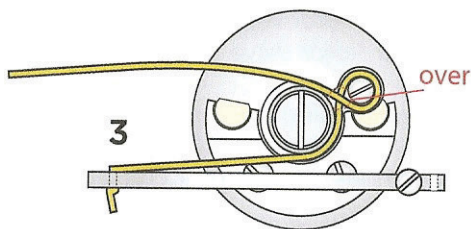
6. Holding the rotor arm in the position shown, wrap the string as in fig.2, making sure that the string goes under the screw. Continue

wrapping as shown in fig.3. Secure the screw (don't over tighten).

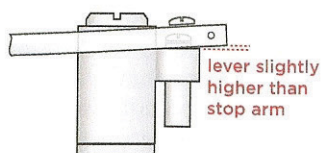
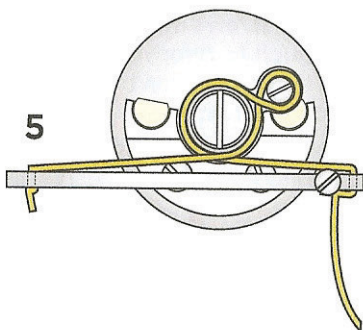
7. Continue with the string as in fig.4, then take it through the hole (fig.5), and wrap it under the screw.



8. When at rest, the arm of the lever will usually be set at an elevated angle to the rotor so that when the lever is pressed, the arm won't be too low (which can cause binding and noise). It may be necessary to re-align the lever arm to the touch piece. This is done by holding the touch piece and bending the end of the lever either up or down. The lever ends should all be on plane with each other just as the touch pieces were.



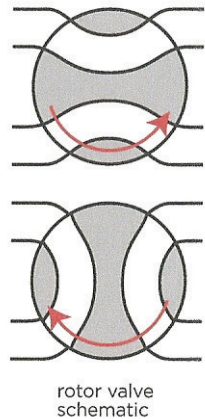
9. To add a professional touch, clip the ends of the strings so that they are the same length. To allow for possible adjustment later, leave the unknotted end at least 3/4" long.



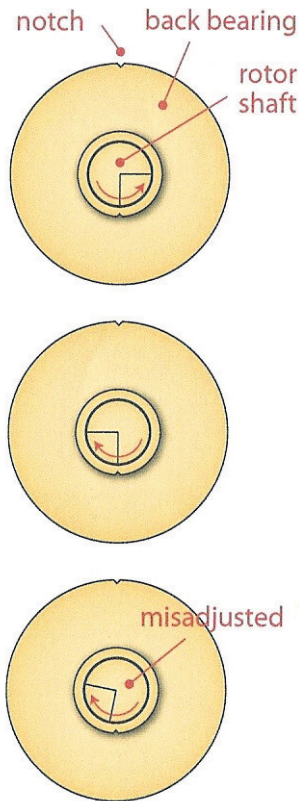
# Adjusting Rotor Port Alignment

In order for the instrument to play its best it is necessary that the rotor valve ports align correctly with the tubing that they direct the airflow to.

Taking the valve cap off the rotor, you will see corresponding marks in both the rotor shaft and in the back bearing. You will also notice a small notch on the outer edge of the back bearing.



1. Align the notch in the back bearing with the corresponding notch in the valve casing. This bearing is gently pressed into place. If it is not located correctly, loose the stop arm main screw (fig.1) a couple turns. Tap on this screw to loosen the back bearing, adjust the bearing, then tap it back into place. Reset the main screw.
2. Moving the rotor stop arm all the way in each direction, observe the position of the mark in the rotor in relation to the mark in the bearing. These must align perfectly when at each stop.
3. This alignment is adjusted by changing the size of the rotor stops. We've included some material that can be used to replace these if they are missing or too small to be adjusted. If the stop is too large, they can be cut back with a razor blade.
4. While it may be possible to insert new stops while all parts are assembled, it sometimes is necessary to remove the cork plate from the casing (making a bigger job). The stop material often needs to be squeezed with pliers or stretched to fit into the plate. The material will then expand to fit securely in the cork plate. Trim the excess with a razor.



Enjoy!

