



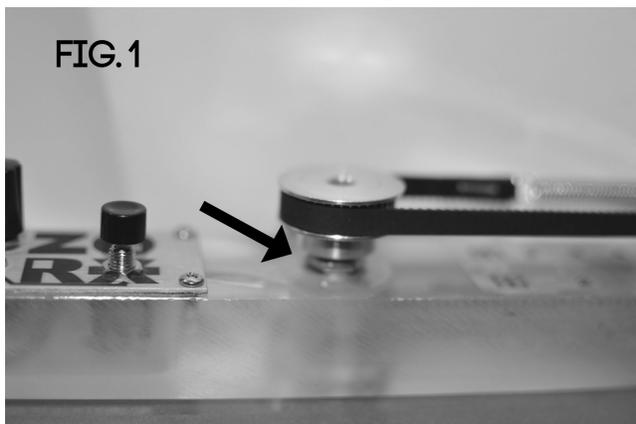
JOIN US

First...

**((((CAUTION/DANGER/WARNING))))** Due to the style of construction of the ZORX Ring Leader, the edges may be sharp and could possibly cause injury. Be aware. Use at your own risk. Playing with power of any sort has the potential to cause injury and worse. Know what you are doing.

The ZORX Ring Leader likes to be clean. It doesn't, however, like abrasives (such as Bon Ami), rubbing alcohol, or heavy duty cleansers to achieve said cleanliness. It does like a slightly damp cloth and a swift rub down. And then to be dried quickly. And then taken out for sushi. It likes that a lot.

If you find the pulley mechanisms a little sluggish, or harder to move than usual, a drop of electronic specific lubricant (we recommend Deoxit D5) on the posts under where the pulleys are attached (Fig. 1) should help remedy this. Remove the pulley by loosening the two screws holding it in place with the included 1.5mm hex wrench. **((((DO NOT OVER-LUBRICATE. A SMALL DROP SHOULD SUFFICE))))**



ZORX will warranty products two years from date-of-purchase (don't forget to register products at [www.zorxelectronics.com/register](http://www.zorxelectronics.com/register)) against manufacturing or materials defects. After that period, repair service is available. Find out more at [www.zorxelectronics.com/answers](http://www.zorxelectronics.com/answers) or contact us at [zorxemail@gmail.com](mailto:zorxemail@gmail.com) if you feel that is necessary.

**(((((WARRANTY IS VOID IF UNIT HAS BEEN OPENED))))))**

**Now, the fun stuff...**

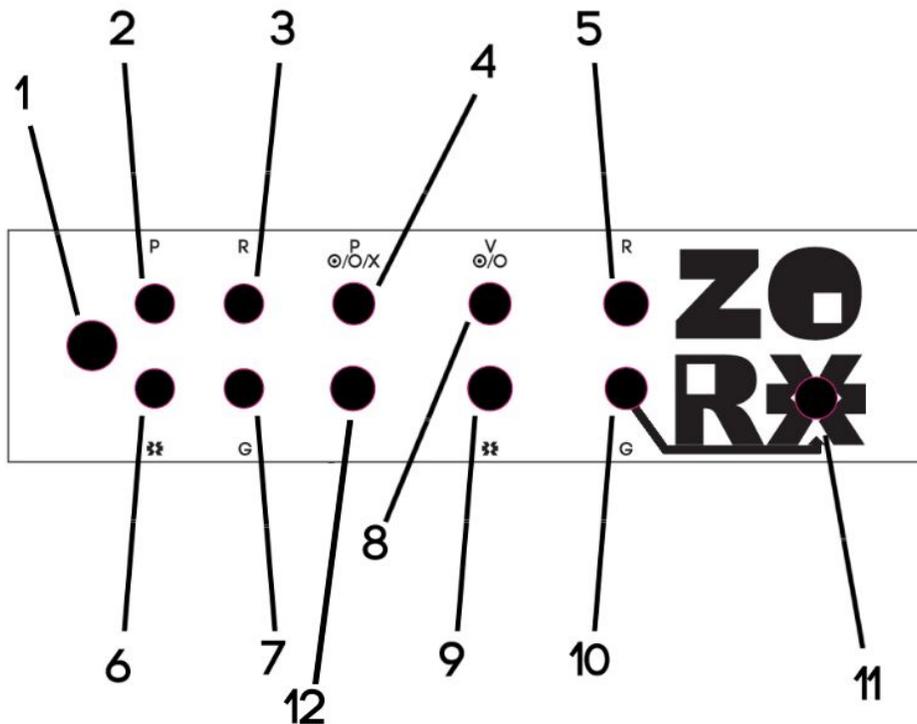
Congratulations on joining us in the ZORX universe! The Zorx Ring Leader is an all analog, passive, handmade, synth controlling labor of love that's made in the USA.

All Zorx products go through a thorough inspection before being shipped out so that when they arrive in their new homes they are ready to rock, roll, and help you make weirdddd noises.

So thank you for joining. We hope that you enjoy your new ZORX Ring Leader. If you have any questions or comments you can contact us at [zorxemail@gmail.com](mailto:zorxemail@gmail.com). Please visit us on the web and subscribe to our newsletter at [zorxelectronics.com](http://zorxelectronics.com) for more information, helpful videos, and to stay up to date on new products and all things ZORX.

Zorx and its affiliates are not held liable for any injury to body or synth caused by, or due to, the misuse of any ZORX product. Please know the specificities, limitations, and power ratings of the unit you are attaching this to and refer to any manuals necessary for proper operation.

Zorx 2017 rev 3a



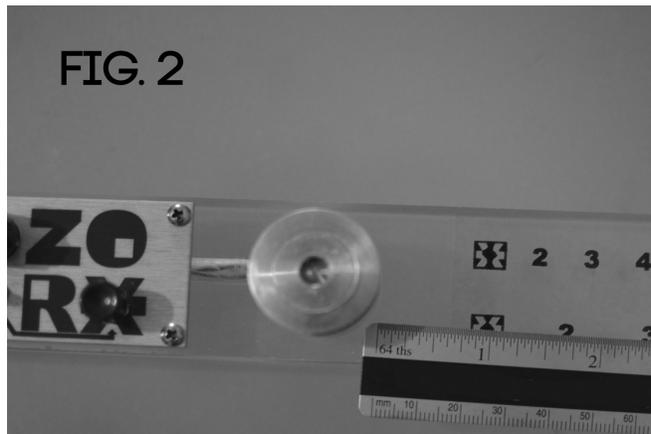
1. 12V DC power input. Accepts positive tip 2.1mm 250+ mA power adapter. Other voltages will work, but will affect brightness of LED and CV output. Only use included power adapter with The ZORX Ring Leader. This unit is not USB/MIDI/FIREWIRE/Etc. compatible.
2. 3.5 mm output for +12v pressure sensor control voltage.
3. 3.5 mm output for +12v ring control voltage.
4. Program engage switch. on/off/pressure volume on switch.  $\odot$  = on, 0= unit off, X = pressure volume on. Pressure mode may alter what it is pathed in to. Adjust accordingly.
5. Ring pitch range. When controlling pitch it can be adjusted for anywhere between 1-ish octaves to 4-ish octaves.
6. 3.5 mm output for +12v ancillary control. Anything you'd like to control with a knob, patch it to this. Arp rate, modulation speed, filter, resonance, distortion. Whatever.
7. 3.5 mm output for +12v Gate.
8. Voltage switch for LED.  $\odot$  = constant on, 0 = on by pressure, middle position is LED off. LED "pressure on" changes the pressure range for more variables. Do experiment.
9. Ancillary knob. Again, results will vary.
10. Gate toggle for latching of NO or NC. This means that the momentary gate push button will turn something on that is off, or something off that is on. Or something like that.
11. X marks the spot! Momentary gate push button. ZORX it!
12. Pressure pad for volume, etc.

## SETTING UP YOUR NEW ZORX RING LEADER

### SETTING UP THE REMOVABLE SCALE DECAL

The ZORX Ring Leader comes with a scale decal that is removable. It's a helpful device for playing melodies and such. The top numbered scale has a 3 octave span, while the lower numbered scale is 2 octaves.

1. First, peel decal off its backing, saving the backing in a safe place in case somewhere down the line you would like to remove the decal but have it available for future use.
2. Next, measure approx. 1" from the end of the left pulley to the middle of the first ZORX symbol on the decal (Fig. 2), and lay the decal on the Ring Leader.

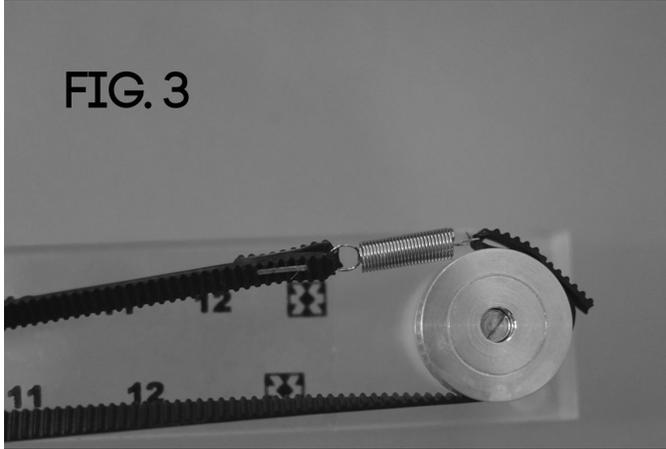


3. Smooth decal flat.

### SETTING UP THE RING LEADER TRACK ASSEMBLY

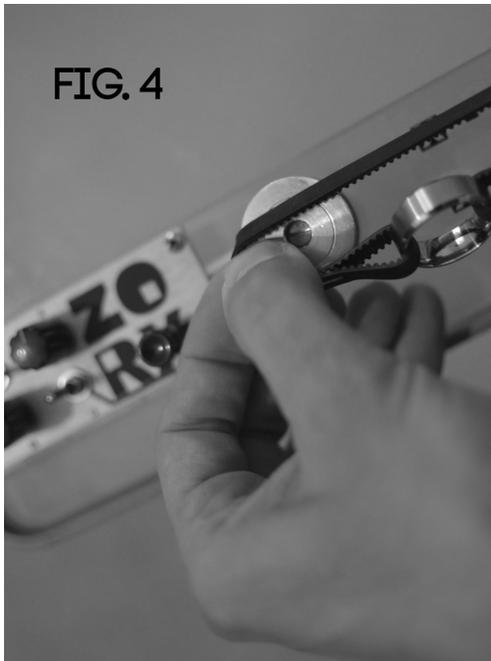
1. Take track assembly (ring, spring, tread) and find the correct orientation so that the ring is on the side closest to your body, with the Ring Leader control panel to your left. Make sure left pulley is in its correct position by hand turning it clockwise until it stops turning.
2. Next, position the spring so that it is just touching the right pulley and slip the belt over, with the spring just to the left of the pulley (Fig. 3).

FIG. 3



3. Now, slip the tread over the left pulley by gently pulling it over (Fig. 4). The spring will stretch to easily allow this. If the spring has moved, simply re-adjust it to its proper position directly to the left of the right pulley and repeat the previous step.

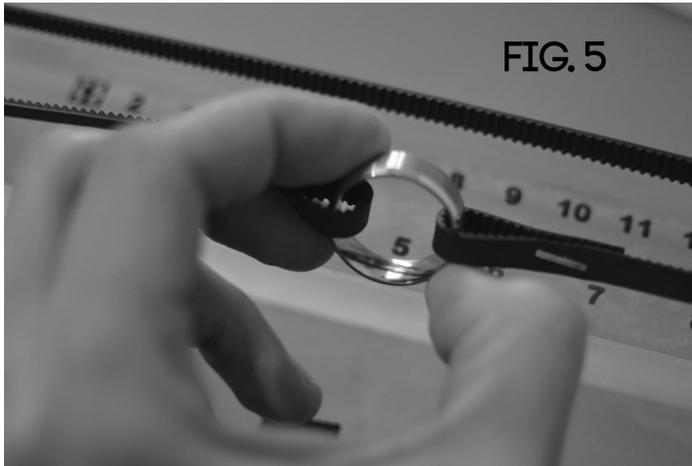
FIG. 4



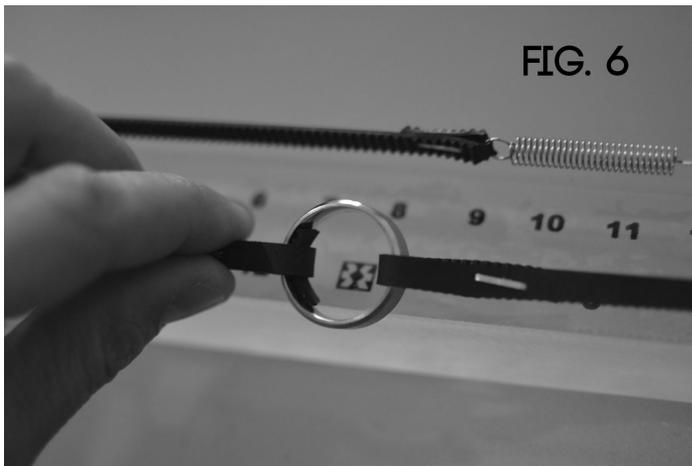
4. Be careful not to pull too hard on the track assembly or you may stretch the spring too much. When finished, the ring should be just to the right of the left pulley, and the spring just to the left of the right pulley.

#### **ADJUSTING THE RING FIT**

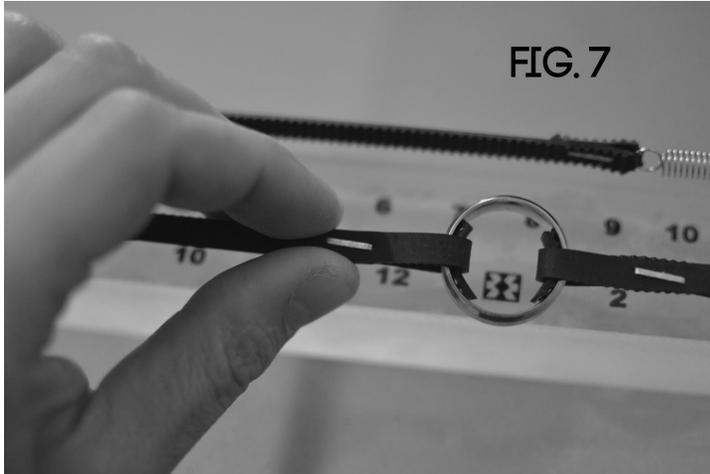
1. The ZORX Ring Leader controller ring is a one size fits all, or OSFA, device. Still, some customization to the ring may be desired. I like to have the ring snug on my finger, and you might as well. Included in the green Confidential envelope you will find two small pieces of the black track. These are used as shims to take up space on the interior of the ring. This is nice for those of us with smaller digits. With the track assembly in place on the Ring Leader, take one shim in your right hand, and with your left hand, hold the track directly to the left of the ring.
2. With your right hand, while still holding the shim, push the ring to the left, creating a gap between the track loop that holds the ring in place, and the ring itself (Fig. 5).



3. Insert the shim in the gap, and release (Fig. 6).

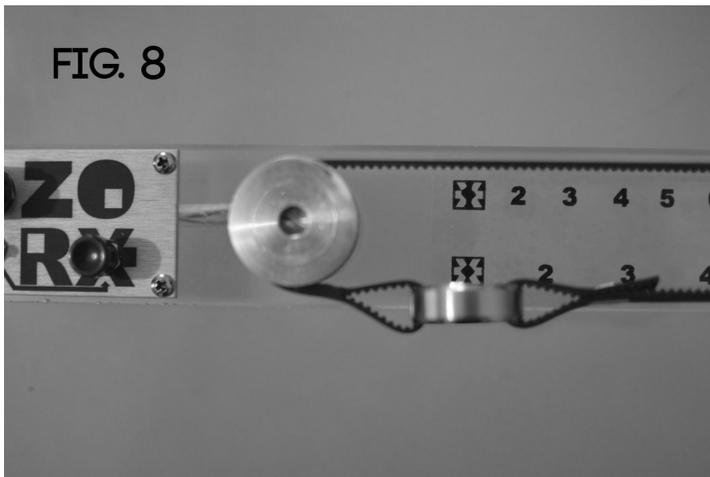


4. Do the opposite for the right side, if necessary (Fig. 7). Anything can be used as a shim, so experiment if needed to find the desired fit.

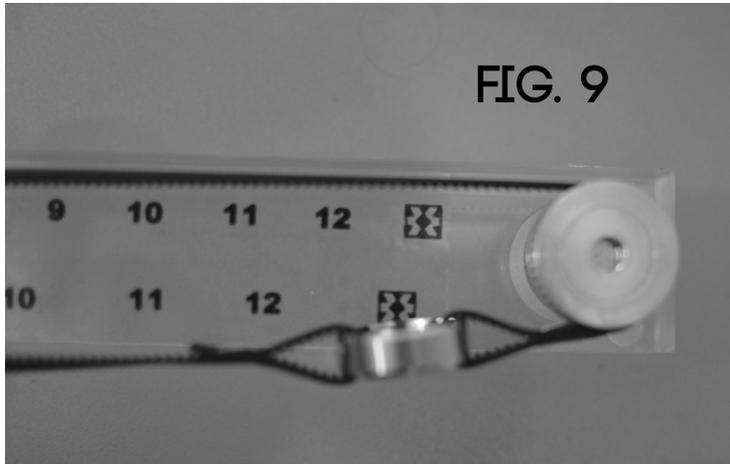


### ADJUSTING THE ZORX RING LEADER RANGE

1. To adjust the Ring Leader to adhere to the 2 or 3 octave decal layout, or another desired parameter, use the following steps. For this example, let us adjust the range to 2 octaves.
2. First, make sure the track assembly is set up properly and the ring is in its leftmost position (Fig. 8).



3. Next, generate a tone from your synth with the ring the above position. This is the root note.
4. Find the second octave of that root note, using any means necessary. Piano, memory, synth, etc. This is our “target note”, and will be the end of our desired range.
5. Now, move the ring to the right, and let it rest on the center of the last note, the rightmost ZORX symbol, on the 2 octave layout (bottom numerical layout on the scale decal if using that) (Fig. 9). If you’re not using the decal, just move the ring as far right as your finger will go.



6. Adjust the range by turning the “R” knob on the control panel (Fig. 10) it until you hear the “target note”, which again, for this example is the second octave of the root that we found in step 5.



7. Done.
8. For 3 octaves, etc., follow the same procedure, but know that the “target note” will be the 3rd octave of the root note. For 4 octaves it will be the fourth octave of the root note, and so on.