



## **BeesNeez LuLu Fet Assembly Instructions.**

**Congratulations on your purchase of the BeesNeez Microphones LuLu Fet Kit.**

These Brief instructions will help you to build you mics both quickly and systematically and will help you to ensure that there are no nasty surprises when you power the mic up for the first time.

### **What's in the kit?**

The Kit includes all necessary components that you will need to build the LuLu Fet.

#### **Kit Check List (per Microphone)**

- 2 x 1 gohm resistors
- 2 x 2 kohm resistors
- 2 x 10 mohm resistors
- 1 x 47 kohm resistor
- 1 x 10 kohm resistor
- 1 x 56 kohm resistor
- 1 x 30 kohm resistor
- 4 x various impedance bias resistors
- 1 x 26v zener diode
- 4 x 4.7uf tantalum capacitors
- 1 x 3819 fet
- 1 x 470pf film capacitor
- 1 x cinemag transformer
- 1 x capsule
- 1 x microphone body
- 1 x microphone suspension mount
- 1 x Microphone PCB with top and bottom pre attached

### **What else is Needed?**

Approximately 3 hours of your time, a soldering iron, multimeter, clean work area and some solder.

## **Where do I start?**

Start by removing all components from the shipping box and check them all against the list on page 1.

Once this has been done, stuff the board with all of the resistors first and solder them into place. The resistors are all labelled making part placement easier. I have prematched the fets for these circuits to minimise the amount of bias calibration needed.

Now stuff the Zener diode in the board. Please make sure that the stripe on the zener is in the same direction as the line on the board.

Now you can place all of the capacitors, you will notice a few missing, these are not important and have been made optional (for more information on these, please contact us). Please ensure that you place the caps in the correct way. You will notice that each capacitor has a + and – leg, make sure that they correspond with the + on the board.

You can now stuff the fet into place, note that the fet has 3 legs and each needs to end up in the PCB.

You will now need to wire in the transformer that is already in place in the mic PCB. This is easy, just connect orange to O, red to R, brown to B and Yellow to..... You guessed it Y.

The circuit biasing will be quite matched if you have bought a pair. If you want to make both mics more closely matched, you can call me and I will give you instructions to ensure that both mics are electrically calibrated to work in with each other flawlessly.

I hope you enjoy your BeesNeez kit undertaking and who know's, they might even work the first time they are plugged in. If by chance they don't, please feel free to call me so I can give you a hard time. Haha.

Thanks.

Ben Sneesby

Phone: +61 2 66331463 Local: (02) 66331463

Mobile: +61 419 481 569 Local: 0419 481 569

[ben@beesneezmicrophones.com.au](mailto:ben@beesneezmicrophones.com.au)