

A self-paced Guide to assembling the KSBTS-AIO Bluetooth Speaker Project .

For a YouTube tutorial video of this guide visit <https://www.youtube.com/watch?v=O4EJLyeWDY4>

Some words of Caution , before we begin:

This Bluetooth Receiver and Amplifier module is designed to work at 5V DC.

- Do NOT apply any voltage higher than 5 V DC !
- The Module can be damaged if you apply anything higher than 5.5 V DC !
- THEREFORE PLEASE CHOOSE YOUR POWER SUPPLY OPTION CAREFULLY !

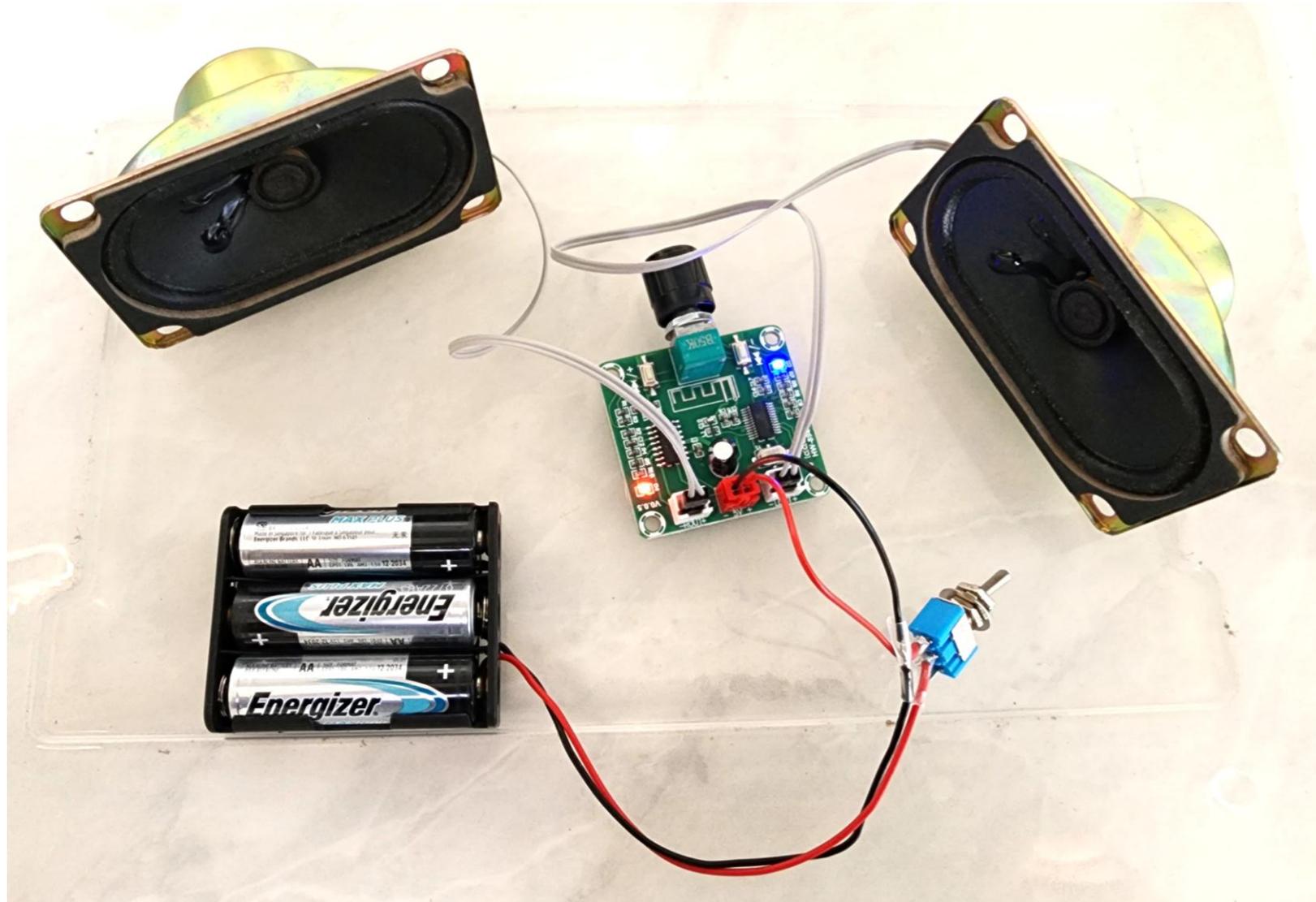
A common risk for schools is:

- Some Students insert Alkaline batteries into the 4 X AA Battery holder, which is expecting rechargeable batteries use ONLY.
- **Do NOT insert 4 “Alkaline” Batteries in to the 4 XAA holder for this kit !!**

We offer 4 power supply options for this kit:

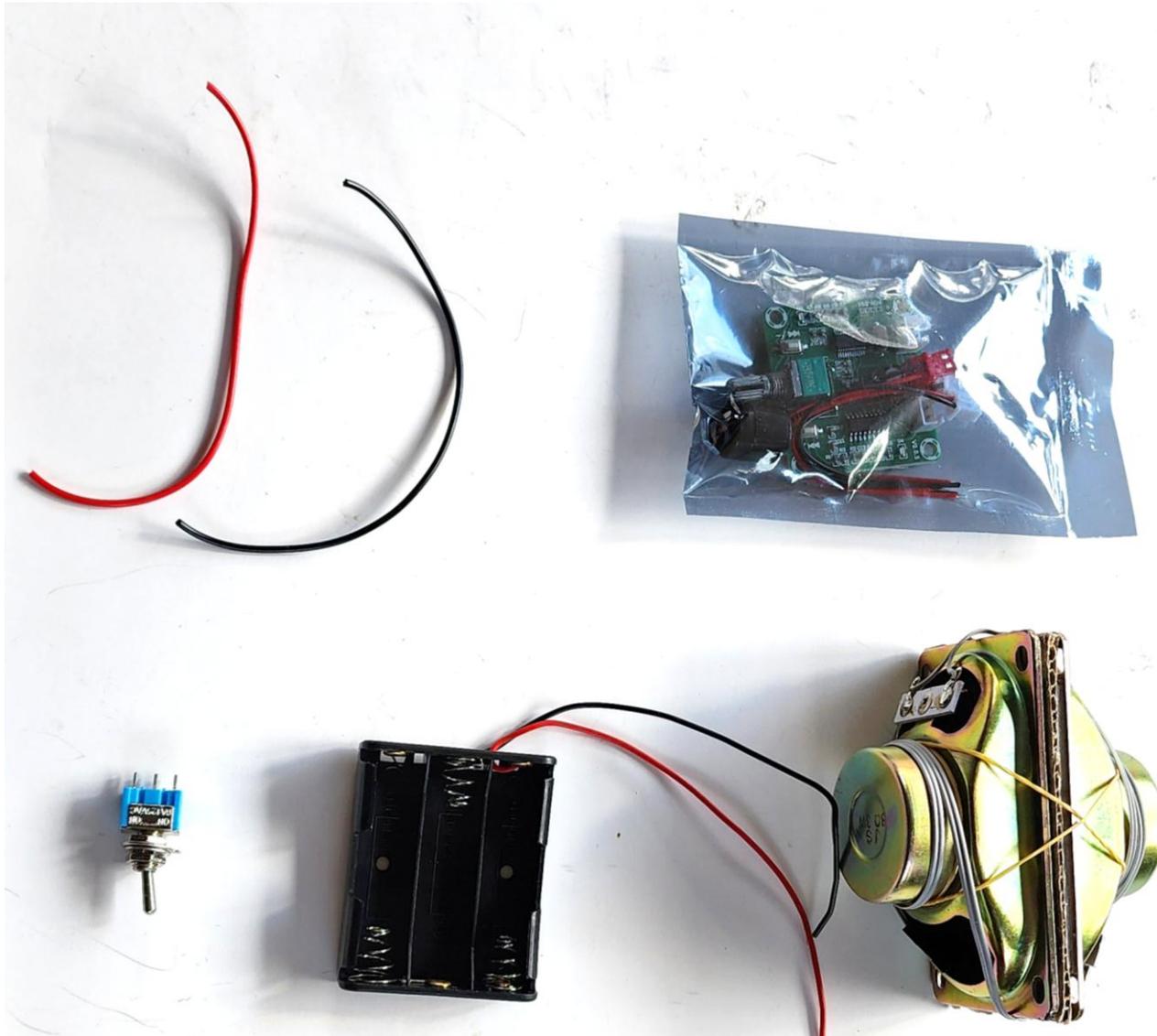
- 1) USB – Type C receptacle and cable
- 2) 3 X AA Battery Holder for Alkaline Batteries (3 X 1.5 V = 4.5V)
- 3) 4 X AA Battery Holder for Rechargeable Batteries (4 X 1.2 V = 4.8 V)
- 4) Our Kitstop 5 Volt Regulator module.

What we are making



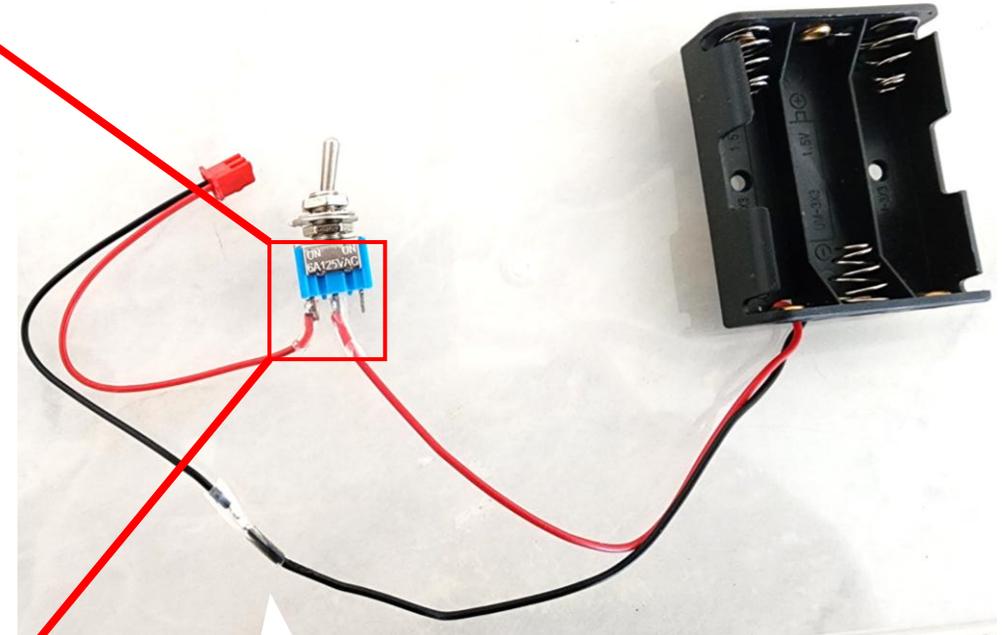
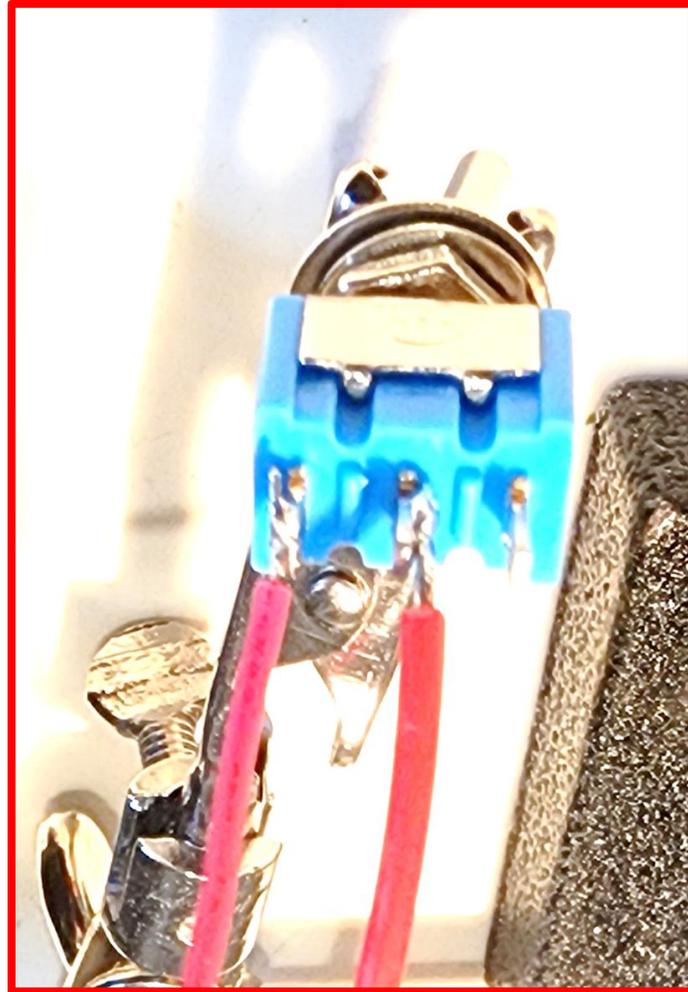
This is showing the 3 X AA kit , which uses Alkaline Batteries.

STEP 1: Bluetooth Speaker parts – as received out of their packet

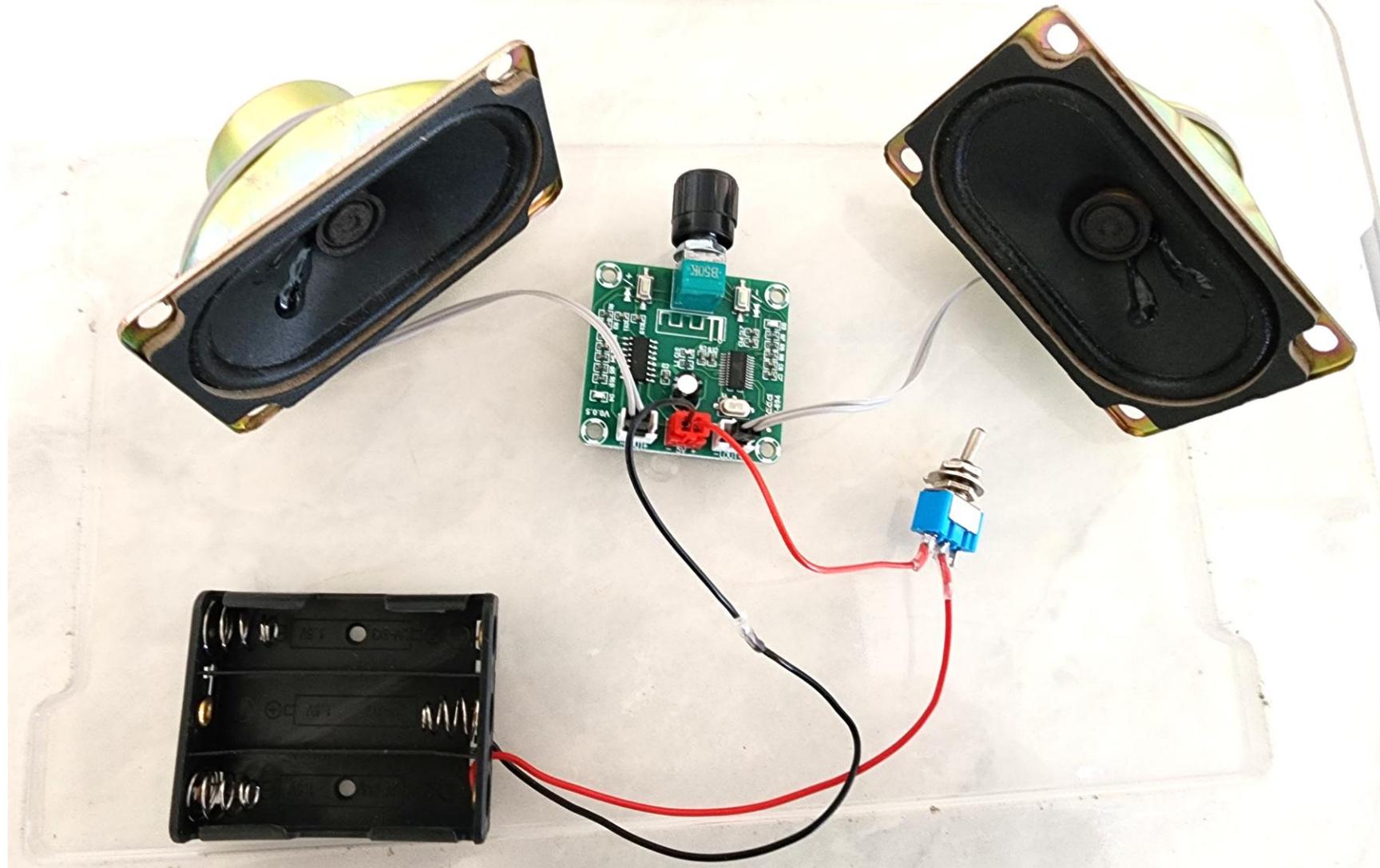


Bluetooth Speaker parts for KSBTS-AIO (3 X AA)

STEP 2: Wires attached to the Switch.
Note red lead from Battery is usually switched.

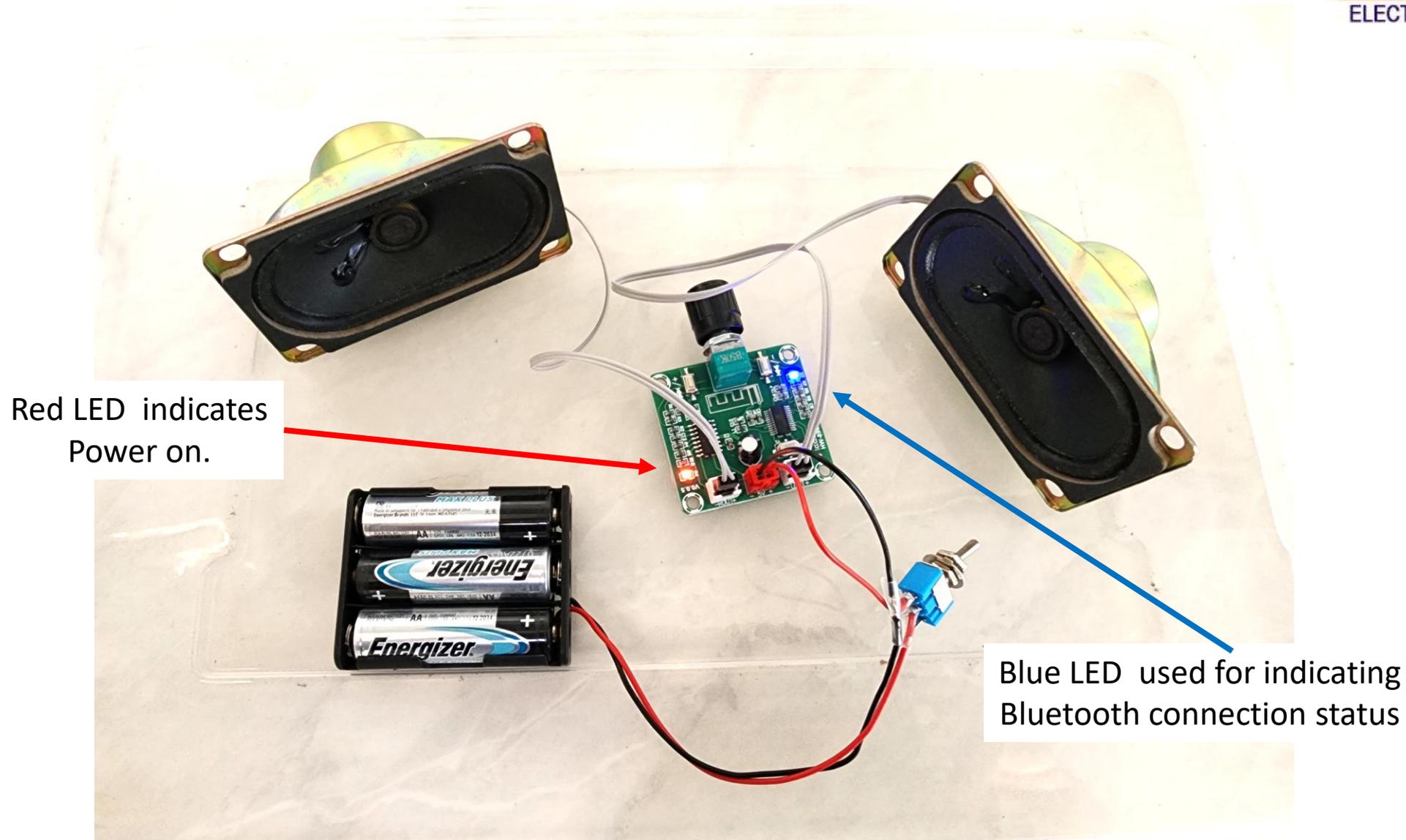


STEP 3: Speakers and supply wires now attached to KSBTS-AIO



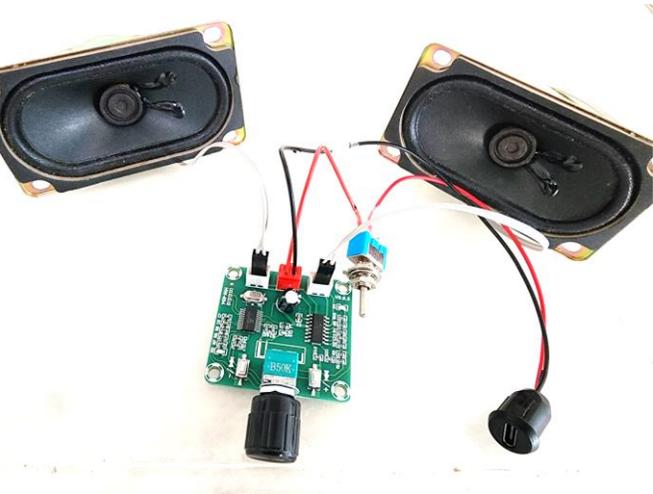
This is showing the 3 X AA kit , which uses Alkaline Batteries ONLY.

STEP 4: Bluetooth Speaker Project fully assembled and ready for testing

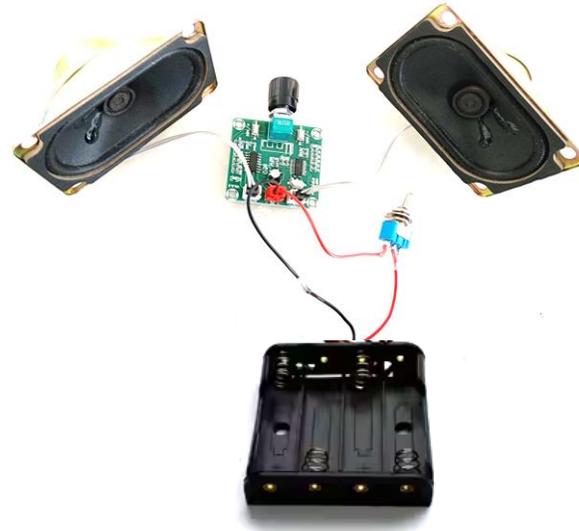


This is showing the 3 X AA kit , which uses Alkaline Batteries ONLY.

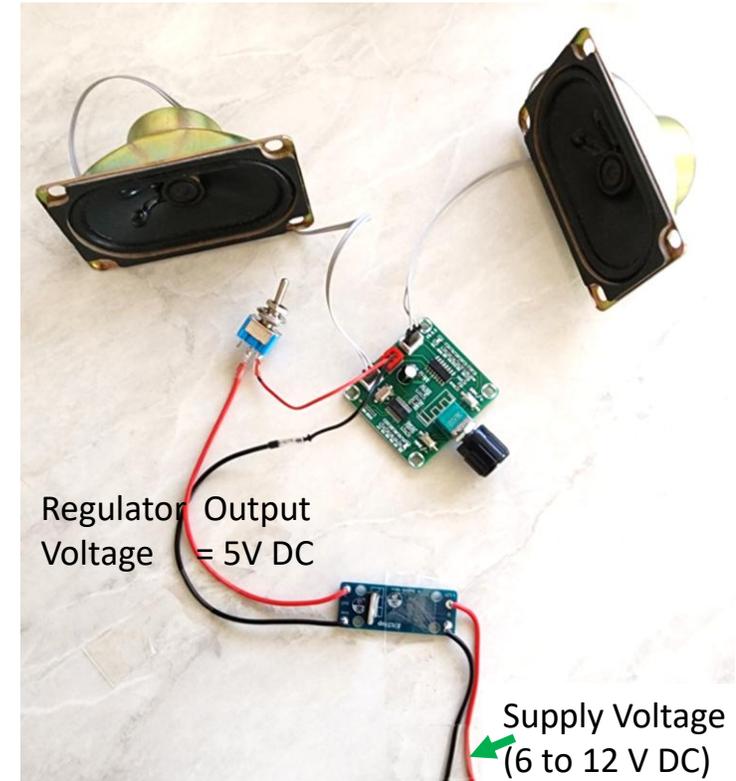
Bluetooth Speaker Projects fully assembled (using alternative supply options) and ready for testing



This is showing the USB-Type C power input.



This is showing the 4 X AA option (Used for rechargeable batteries)



Using the Kitstop 5V Regulator module (Used when supply voltages are 6V to 12V DC)

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