



## Useful information for Teachers when using this kit for the first time ....

### **1) Supply Voltage considerations:**

This Kit is designed to operate on 5V DC

- The amplifier will work from 3.6 to 5.5 V DC. BUT it will **die** at 6.0 V DC !!
- The Bluetooth Dongle will work from 4.2 to 6.0 V DC but it will “drop out” below 4.2 V DC.

Hence a careful choice of batteries is important.

EITHER :

Alkaline batteries - ONLY use 3 X AA battery holders  
(Advantage is lower initial cost of batteries )

OR

Rechargeable batteries – use 4 X AA battery holders.

**WARNING !** Using 4 X Alkaline Batteries will dramatically shorten the life of the amplifier !

### **2) Power consumption (Battery operational life) :**

- This kit will drain AAA batteries very quickly (often less than 15 minutes) HENCE ...we do not recommend them !
- The operational life of the AA batteries depends HEAVILY up the volume of the amplifier! Expect fresh AA batteries to last approx. 60 minutes in the hands of most Students.
- The batteries are running low when the Bluetooth Dongle starts to “Drop out” .... Or loses connection. This is typically around 4.2 V supply to the Dongle. This can be frustrating for students who have not understood battery performance characteristics.

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### 3) Consider a USB power supply input:

A low cost alternative you may like to offer Students is an option to use a USB plug pack as a power supply.

The USB Plug pack needs to support standard USB @ 1 Amp.  
(Most modern USB Plug pack support 2 Amps supply , hence even older plug packs will usually suffice!)

### 4) Teacher Resources available from us:

- The following Teacher Resources are available Free of Charge if requested:
  - Doc 1 KSBTS-02 Overview for Teachers .pdf
  - Doc 2 FK677 Student instructions ver 1.pdf
  - Doc 3 KSBT-02 Bluetooth Receiver Dongle (Teacher's Guide) - Ver 1 .pdf
  - Doc 4 Assembling KSBTS-02 .pdf
  - Doc 5 A self-paced guide to Wiring the ON-OFF switch .pdf
  - Doc 6 iPhone Connection Guide .pdf

### Optional Extras:

- 4 choices of Power supply:
  - 3 X AA battery holder for Alkaline Batteries (Delivered as Standard version)
  - 4XAA battery holder for rechargeable Batteries  
(No cost to swap for the 3XAA holder if you ask at time of order placement).
  - USB Receptacle (Type "C" panel mount) Additional cost = \$2.00
  - Using a 12V DC mains plug pack (Please contact us for extra details) ....
    - This needs an additional DC Power Inlet Socket (2.1mm) PLUS
    - 5 V DC Voltage Regulator Module
    - Additional Cost = \$7.50
    - PLEASE NOTE: Plug Pack is not supplied by us unless separately negotiated.
- Lower cost Speakers are available if you face budget constraints.