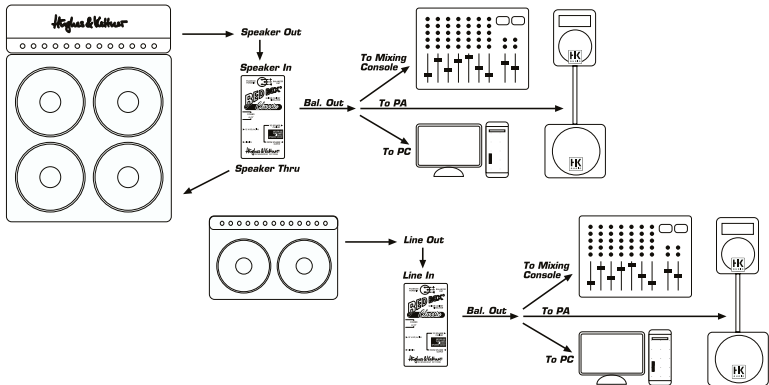


# RED BOX<sup>®</sup> *Classic*

Hughes & Kettner<sup>®</sup>  
TECHNOLOGY OF TONE

***Operating Instructions***

English



The Hughes & Kettner Red Box Classic converts Line Out and Speaker Out signals into balanced, frequency-compensated signals, enabling a direct feed to a mixer. The Red Box Classic features two voicing options, a 4x12" cabinet and a 2x12" combo.

### ***Benefits***

- No mic required
- No sound deviations due to different mics/mic positions
- Authentic speaker sound even at low levels
- No feedback
- No undesirable spillage from other signal sources
- No phase cancellations caused by neighboring mics

### ***Setting up and operating the Red Box***

- Switch your amp's power off.
- If the mixer desk does not feature phantom power, insert a 9 V E-block battery or connect a suitable AC adaptor (refer to „Technical Specifications“)
- Connect all cables as illustrated in the diagram. The Red Box activates as soon as you plug a cable into the Line In or Speaker In jacks
- Switch your amp's power back on. Select one of the voicing options, 4x12" or Combo
- To switch the Red Box off, simply unplug the cable to the Line In or Speaker In jack. This cuts its power supply.

### ***Operating the Red Box with tube amps, solid state amps & preamps:***

The power amp stage in an all-tube amp is instrumental in shaping your guitar amp's tone, which is why we recommend you tap the power amp speaker signal (**Speaker**) when utilizing a tube amp. The preamp signal (**Line Out**) is preferable for solid state amps due to lower noise levels and superior dynamic response. Always employ the **Line Out** signal whenever using a preamp.

### ***CAUTION!***

Never operate an amp featuring a tube power stage without a connected speaker or a power-soak resistor with a sufficient load! Hughes & Kettner is not liable for equipment damage caused by erroneous

handling of the Red Box. When in doubt consult a qualified technician, especially when dealing with load resistors. Make a habit of connecting the Speaker Thru jack to your speaker/speaker cabinet immediately after connecting the amp's Speaker Out to the Mark III's Speaker In! Ensure the amp is switched off before you begin connecting cables; otherwise the Red Box may be damaged. Ensure all plugs are inserted properly!

### ***Troubleshooting***

**The Red Box is connected, but no signal is routed to the Balanced Out jack:**

- The Red Box is not receiving power. Insert a 9V block battery, plug in the proper adapter, or switch the mixer desk's phantom power on.

- You are using an unbalanced plug adaptor. Its pin assignments do not match the Balanced Out jack's. Use a plug and cable corresponding to the diagram above.

**The amp's Line Out is connected to the Red Box, but the signal at the Balanced Out jack is too weak:**

- Ensure the amp's Line Out signal is properly connected to the Red Box's Line In jack.

**The amp's Speaker Out is connected to the Red Box but the signal at the Balanced Out jack is too powerful and is overloading the mixer/recorder's input:**

- Ensure the amp's Speaker Out signal is properly

connected to the Red Box's Speaker In jack.

**The Balanced Out signal hums:**

- The Red Box is not receiving enough power. Check the battery or AC adaptor.
- The amp and the mixer/recorder's earth circuits have formed a ground loop. Activate your amp's or the mixer/recorder's ground lift switch, or use a transformer to galvanically separate the line circuit.
- The connecting cable is poorly positioned and is picking up interference from a nearby source (perhaps a mains cord, transformer, etc.). Replace it with a high-quality cable and move this cord away from the noise source.

## ***Technical Specifications***

<b>Balanced Out:</b>	electronically balanced
XLR jack	1 = GND/ 2 = + /3 = -
Impedance:	600 ohms
Damping:	
Line In/ DI Out:	24 db
Speaker In/ DI Out:	54 db

<b>Speaker In:</b>	
1/4" jack:	unbalanced
Impedance:	500 K-ohms
Max. level with	
9 V battery/adaptor:	+40 dbV
48 V phantom power:	+54 dbV

<b>Line In:</b>	
1/4" jack:	unbalanced
Impedance:	15 K-ohms
Max. level with	
9V battery/adaptor:	+ 10 dbV
48V phantom power:	+ 24 dbV

<b>Power Supply:</b>	
External adaptor:	9-15 V AC or 9-24 V DC
min. of 10 mA Phantom power via	
Balanced Out jack:	48 V OC
Battery:	9 V
Typ. power cons.:	2 mN 9 V- 3 mN 48 V

<b>Character Switch:</b>	4x 12"/Combo
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