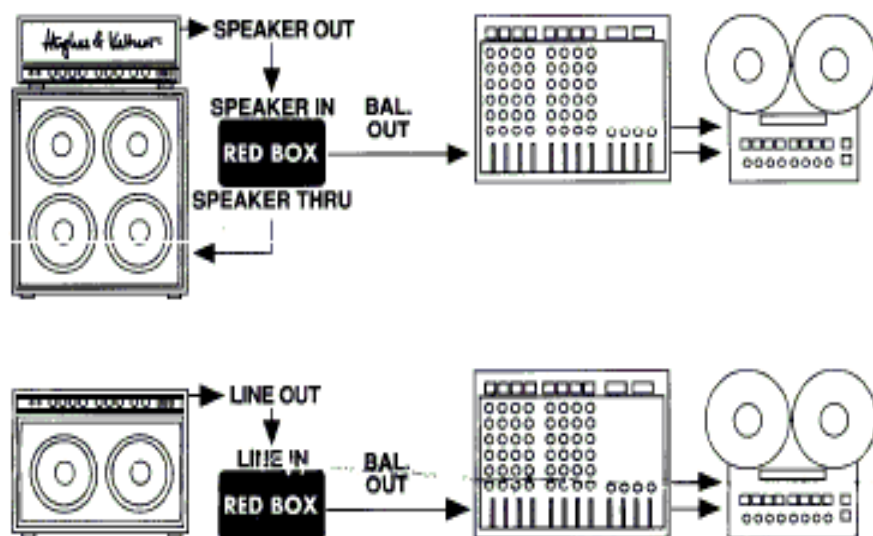


# RED BOX MKIII

## OPERATING INSTRUCTIONS



### OPERATING INSTRUCTIONS:

The Hughes & Kettner RED BOX MK III converts line out and speaker out signals to balanced, frequency-corrected signals, enabling a direct feed to a mixer desk/recording device. The MK III features two sound characteristics, a 4x12" cabinet or a 2x12" combo option.

#### Advantages:

- No mic stand required.
- No tone deviations due to different mics/mic positions.
- Authentic speaker sound even at low volumes.
- No feedback.
- No undesirable spillage from other signal sources.
- No phase cancellations caused by other mics in the vicinity.

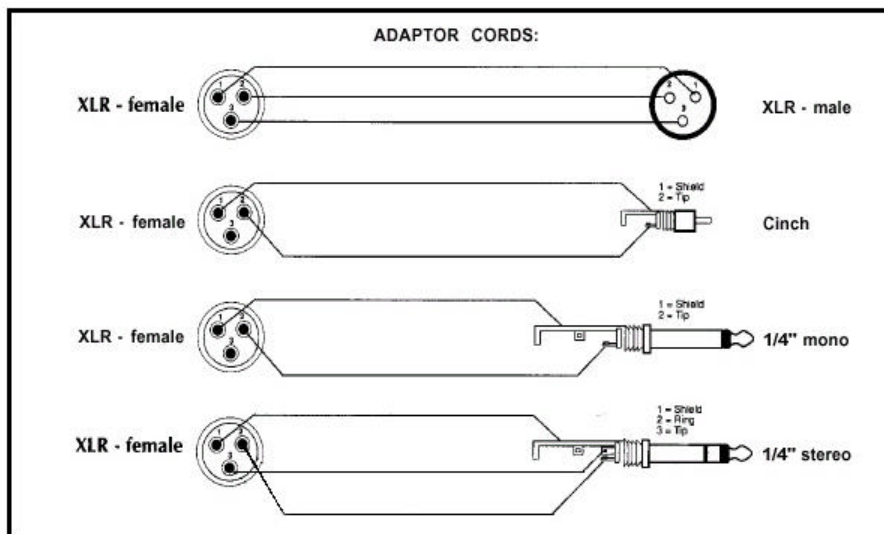
#### RED BOX setup and operation:

- Switch your amp's power off.
- If the mixer desk does not feature phantom power, insert a 9V E-block or connect a suitable AC adaptor (refer to "Technical Specifications").
- Connect all cables as illustrated in the diagram above.
- The RED BOX is active 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 character options, 4x12" or Combo.
- To switch the RED BOX power supply off, simply unplug the cable to the LINE IN or SPEAKER IN jack.

#### RED BOX + tube amp / solid state amp / preamp:

The power amp stage in an all-tube amp is instrumental in shaping your guitar amp's tone, which is why we recommend you use its power amp signal (SPEAKER OUT) 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 feed the RED BOX with the LINE OUT signal whenever using a preamp.

**CAUTION!** Never operate an amp featuring a tube power stage without a connected speaker or a sufficient resistor! 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! Protect your RED BOX from potential damage by ensuring the amp is switched off before you begin connecting cables. Ensure all plugs are inserted properly!



#### TROUBLE SHOOTING:

You connected the RED BOX according to the illustration, but no signal is evident at the BALANCED OUT jack:

- A) The RED BOX is not receiving power. Insert a 9V battery, plug in the proper adaptor, or switch the mixer desk's phantom power on.
- B) You are using an unbalanced plug adaptor. Its pin assignments do not match the BALANCED OUT jack's. Use a plug and cable that correspond to the diagram above.

You connect the amp's LINE OUT to the RED BOX, but the signal at the BALANCED OUT jack is too weak:

Ensure the amp's LINE OUT signal is routed correctly, i.e. to the RED BOX's LINE IN jack.

You connected the amp's SPEAKER OUT to the RED BOX but the signal at the BALANCED OUT jack is too strong, causing an overload at the mixer/recorder:

Ensure the amp's SPEAKER OUT signal is routed correctly, i.e. to the RED BOX's SPEAKER IN jack.

**The BALANCED OUT signal hums:**

- A) The RED BOX is not receiving enough power. Check out the battery or AC adaptor.
- B) There is a multiple grounding between the amp and the mixer/recorder. Activate your amp's or the mixer/recorder's ground lift switch, or use a transformer for a galvanic separation of the line connection.
- C) The connecting cable is soaking up interference from a nearby noise source (e.g. an AC cord, transformer, etc.). Replace it with a high-quality cable and position it away from the noise source.

#### TECHNICAL SPECIFICATIONS:

<b>BALANCED OUT:</b>	electronically balanced	<b>SPEAKER IN:</b>	
	XLR jack	1/4" jack:	unbalanced
	1 = GND/2 = +3/-	Impedance:	500 k $\Omega$
Impedance:	600 $\Omega$	Max. level with	
Damping:		9V battery/adaptor:	+40dBV @ 00V
LINE UNBALANCED OUT:	24db	with 48V phantom power:	+54dBV (500V)
SPEAKER UNBALANCED OUT:	54db		
		<b>POWER SUPPLY:</b>	
LINE IN:		Socket for external adaptor:	9-15V AC or
1/4" jack:	unbalanced		9-24V DC min. of 10mA
Impedance:	15k $\Omega$	Phantom power via	
Max. level with		BALANCED OUT jack:	4av DC
9V battery/adaptor:	+1 )dBV (3V)	Battery:	9V
with 48V phantom power:	+24dBV (18V)	Typical power consumption:	2mA/9V - 3mA/48V
CHARACTER SWITCH:	4 x 12"Combo		