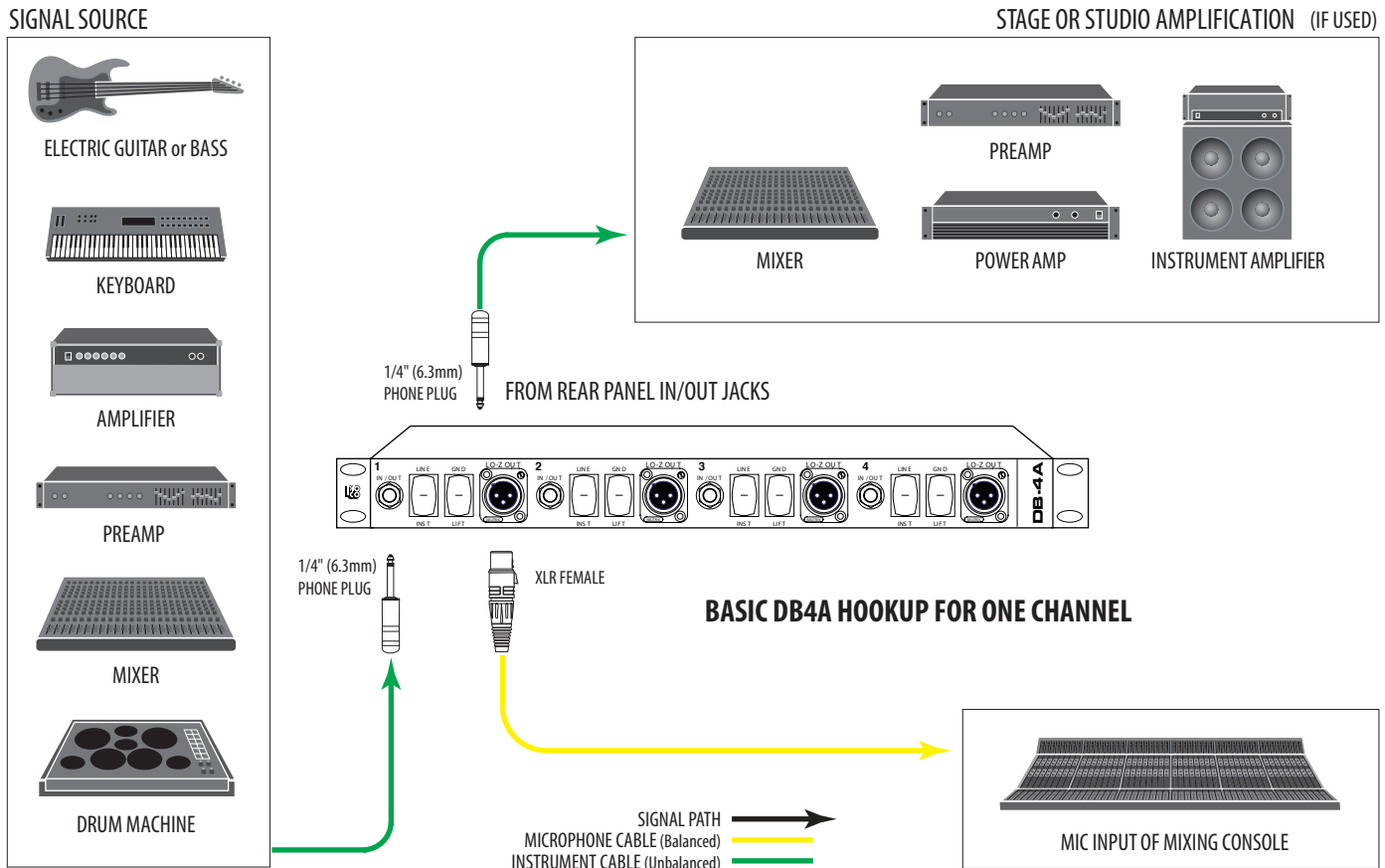


## APPLICATION INFORMATION



## CONTROLS:

### IIN/OUT:

Three phone jacks wired in parallel for signal input and "loop-through." For convenience there is a front-panel jack and a pair of rear-panel jacks (for use with rack-mounted equipment). Any IN/OUT jack can be used as an input from an unbalanced source or as a loop-through output as required. (Note: The DB-4A is not a mixer and should not be used to mix signals together. One unbalanced signal source should be connected to each channel.) Input impedance: INST-greater than 100 kohm; LINE-approx. 8 kohm. Handles signals of up to 69V RMS.

### LO-Z OUTPUT:

Male 3-pin XLR-type connector provides balanced floating low-impedance output (pin 2 hot). Connect to mixing board microphone channel input. Recommended load impedance: 1.0 kohm.

### LINE/INST:

LINE position inserts 20 dB pad between the three IN/OUT jacks and the DBT-1 transformer for increased level handling capability. Also provides proper source impedance to optimize frequency and transient response. INST position bypasses pad and is used for high-impedance sources such as guitars, basses and some older keyboards. (LINE/INST switch affects only LO-Z OUTPUT level).

### GND/LIFT:

GND position connects INPUT and LO-Z OUTPUT grounds together. LIFT position "floats" LO-Z OUTPUT. Used to reduce hum and buzz by providing proper grounding for various conditions.

## TYPICAL CONTROL SETTINGS:

USE "LINE" FOR:	USE "INST" FOR:
Most Keyboards Drum Machines Drum Synths Preamp/Line Out of Mixers or Amplifiers Effects Devices	Electric Guitars Electric Basses Older Keyboards Some Effects Pedals
Set "GND/LIFT" switch to minimize Hum and Buzz (See Note)	

**NOTE:**

1. GND/LIFT switch settings assume the mixer is also the central ground reference point for the system.

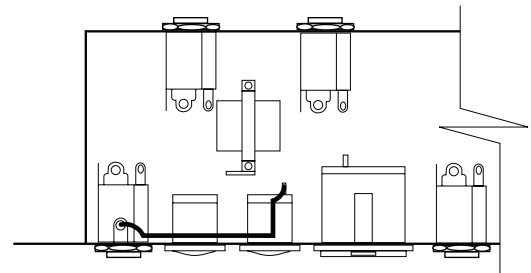
**For safety reasons all equipment should be equipped with 3-wire AC power cords and plugged into properly grounded receptacles.**

Use of the GND/LIFT switch should minimize hum and buzz.

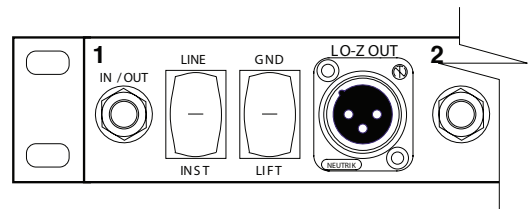
If GND/LIFT switch seems non-functional, check wiring of cable plugged into the LO-Z OUTPUT. A cable with a jumper between pin 1 and the connector shell will defeat the GND/LIFT switch.

## FLOATING DB4A CHASSIS GROUND:

Channel 1 of the DB-4A has a jumper between the IN/OUT ground and the chassis to provide grounding when used free standing. When rack-mounted this ground connection may not be necessary or desirable because of the ground loop formed between the rack or chassis ground and the Channel 1 IN/OUT ground. Cutting this jumper wire will "float" the DB-4A circuits from the chassis. This jumper wire is accessible by removing the two screws from each end of the DB-4A and removing the cover. The jumper will be a green wire connecting the center lug of the Channel 1 GND/LIFT switch to the ground lug, which is connected to the 1/4" IN/OUT phone jack. (See drawing for details). Cut the wire at both ends and replace the cover on the DB-4A.



LOCATION OF DB4A CHASSIS GROUND JUMPER



## CIRCUIT DIAGRAM:

**PRO CO MODEL: DB4A**

ONE OF FOUR CHANNELS

DIMENSIONS..... 4.75" D x 19.0" W x 1.75" H  
 120.7mm D x 482.6mm W x 44.4mm H  
 WEIGHT .....4.40 lb/1.62 kg  
 SHIPPING WEIGHT.....5.00 lb2.25 kg

TOP VIEW

FRONT VIEW