DI BOXES

20-041 Active DI Box

This is a highly flexible, high performance direct injection box. Two inputs and a 20dB pad switch are provided giving attenuations of 0,20,45 or 65dB. Another front panel switch is provided to select the jack socket output either 'buffered' from the input jacks or in 'parallel' with them. Thus the musician can obtain his preferred 'sound' with all the other advantages of an Active DI box. With suitable wiring the buffered output can provide a transformer isolated signal for a second mixer.

Operating instructions

For normal applications all jacks are the standard 2 pole, 6.25mm (¼") type.

(1) Plug the instrument or amplifier output into the appropriate socket.

(2) Plug a lead from the output jack socket into the instrument amplifier input or loudspeaker as appropriate.

(3) Plug a standard XLR type microphone lead into the 'Desk' socket. As standard the wiring is 1-Earth, 2-Live, 3-Return.

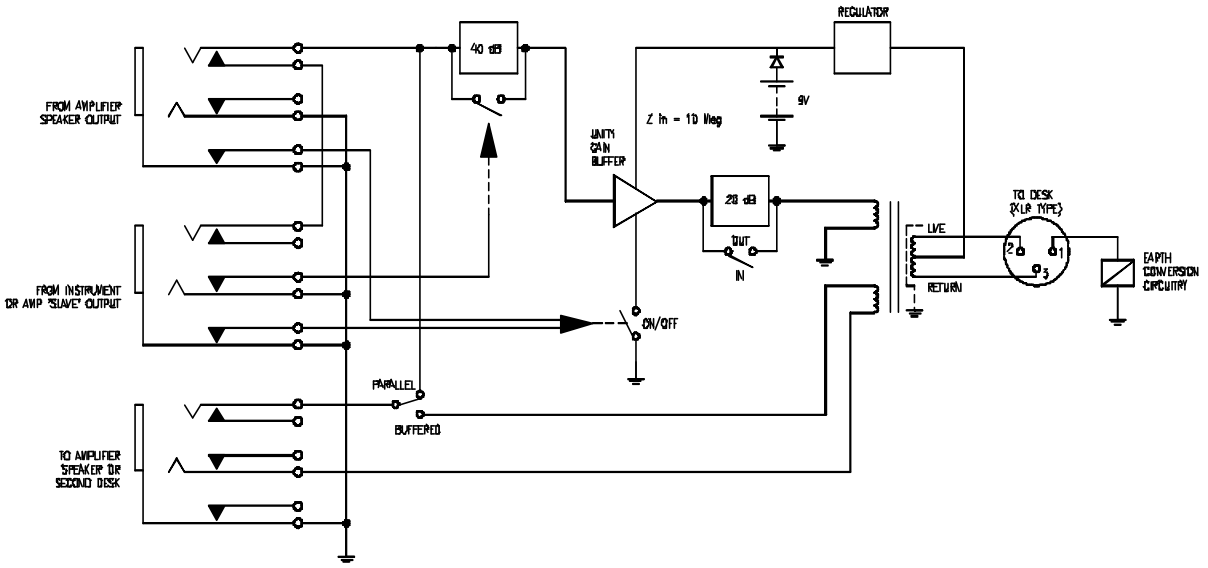
(4) If the mixer does not provide phantom powering, insert a 9 volt battery of appropriate type into the battery compartment.

(5) Select the pad switch to provide the correct output level to match your mixer input. A microphone input would normally be used; however most mixer line inputs are also suitable.

(6) The parallel/buffered switch allows your instrument either to be connected directly to your amplifier (parallel) or to be loaded with the 10MO impedance of the DI box (buffered). Many instrument amplifiers have a relatively low input impedance which will produce a high frequency loss from the instrument. If this is the sound you prefer set the box to 'parallel'. In this mode the box introduces virtually no extra loading to change the sound induced by the instrument amplifier. 'Parallel' should always be used when a loudspeaker is connected to the output jack.

(7) If the box is used to split the instrument feed between two mixers, use a 3-pole stereo type 6.25mm (¼") jack in the output jack socket. Wiring Tip-Live, Ring-return gives a transformer isolated output for the second mixer. 'Buffered' should always be selected when the box is used as a splitter. The sleeve of the jack will provide an earth in common with instrument if required.

(8) The box contains a special ground (earth) compensation circuit which makes 'ground lift' switches obsolete. Twelve months of testing have not shown a single instance where any problems have occurred due to grounding.



TECHNICAL SPECIFICATION

Phantom powered:	To DIN 45596, 7.5-52 volts
Battery	9V, type PP3, 6F22, 1604
Instrument input impedance (buffered):	10O
Instrument input attenuation :	0dB or 20dB
Amplifier input impedance (buffered):	1.8MO
Amplifier input attenuation:	45dB or 65dB
Minimum load impedance:	1KO
Frequency response:	±0.5dB, 15Hz-40Hz
Distortion:	<0.02% @ 1KHz, 0dBu output
Noise:	<-100dBu measured 20Hz-20KHz, matched for source impedances greater than 20KO

Directly compatible with known instrument pick-ups including Barcus Berry, Cducer, etc.