

## DIRECT INJECTION BOXES INSTRUCTIONS FOR USE

**20-031** E520 DI BOX, PASSIVE, 1 CHANNEL, WITH EARTH LIFT

**20-032** E525 DI BOX, PASSIVE, 2 CHANNEL, WITH EARTH LIFT

**20-034** E545 DI BOX, PASSIVE, 6 CHANNEL, WITH EARTH LIFT, 1U RACKMOUNT

**20-035** E580 DI BOX, PASSIVE, 8 CHANNEL, NO EARTH LIFT, 1U RACKMOUNT

**CAUTION : UNDER NO CIRCUMSTANCES CONNECT THESE PRODUCTS TO ANY MAINS POWER SUPPLY.**

### MODELS

ALL MODELS USE THE SAME COLOUR CODED JACK SOCKETS

THE E540 HIGH ISOLATION DI BOX HAS NO EARTH LIFT SWITCH

### OUTPUT

A 3-pin XLR type connector giving a floating output with a nominal level of 10mV, suitable for most microphone mixer inputs.

Wiring to normal balanced twin screened cable is as follows:

Pin 1 – Earth braid (screen)

Pin 2 – Red wire (signal positive/hot)

Pin 3 – Black wire (signal negative/cold)

For connections to unbalanced inputs use pins 1 & 3 joined together as earth or ground and pin 2 as signal positive (hot).

If the mixer input connector is an unbalanced jack then XLR pins 1 & 3 go to the sleeve and pin 2 to the tip.

If hum problems (earth loops) are experienced they can often be solved by use of the earth lift switch.

### INSTRUMENT INPUT

This input is for low level signals (maximum 1V) having a high input impedance suitable for musical instrument pickups. The input is via the white jack sockets, either of which may be used since internally they are parallel connected. The jacks are mono, unbalanced type, as are all jack sockets on EMO DI Boxes.

The most common connection is shown in Fig. 1.

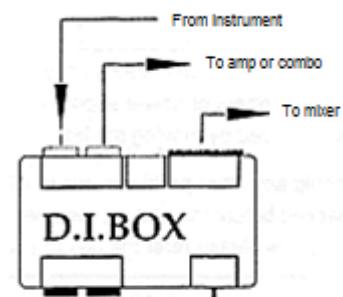


Fig. 1.

### LINE INPUT

This is a medium level input (max 30V) for use with slave/line outputs on amplifiers and combination amplifiers.

This is shown in Fig. 2.

This input will also work with synthesizers and other line level inputs.

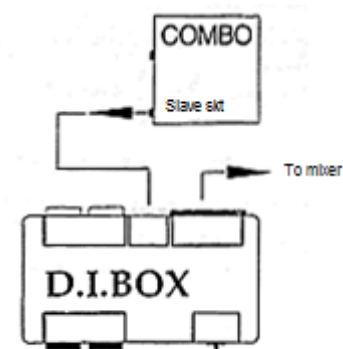


Fig. 2.

**SPEAKER INPUT**

This is a high level input (max 100V) suitable for use with loudspeaker circuits including 100V line public address amplifier outputs. Normal connection is as in Fig. 3, however the unit may be driven from a parallel speaker output from an amplifier (Fig. 4.) or loudspeaker cabinet. (Fig. 5.)

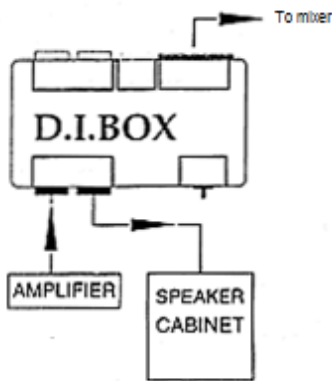


Fig. 3

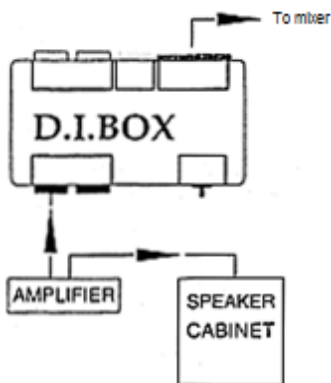


Fig. 4

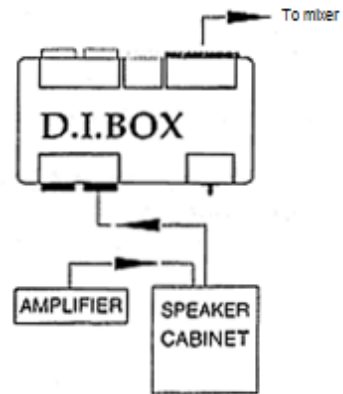


Fig. 5

A further method of connecting to this input is as in Fig. 6.

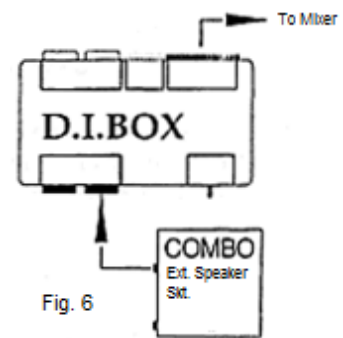


Fig. 6

Occasionally the unit may be susceptible to hum pickup when placed very close to transformers or power supplies as found in amplifiers, This problem is easily solved by moving the box.

Should any other problems occur all cables and connectors, etc., should be checked before the unit is presumed to be at fault. In case of further difficulties please refer the unit to your local supplier.