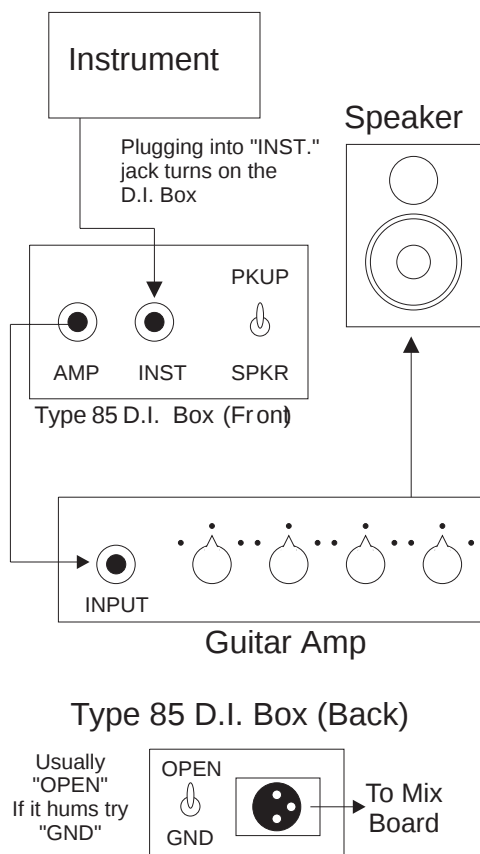


Using Your Type 85 Direct Box



Typical Bass Guitar Setup



Type 85 Frequently Asked Questions

Q. How do you hook up a Type 85?

A. The diagram shows you the two most common ways to connect your Type 85.

Q. I have just a guitar (or other signal source) and no amplifier. How do I hook it up to the Type 85?

A. All signal sources must go to the "INST." jack because inserting a plug into the "INST." jack turns on the Type 85. The "AMP." jack is simply connected in parallel with the "INST." jack, but it does not operate the power switch.

Q. How do you use the "PICKUP-SPEAKER" switch?

A. Use the "SPEAKER" position when the Type 85 is connected to the speaker output of an amplifier and the "PICKUP" for all other sources, including preamp outputs.

Q. How many watts can the Type 85 handle?

A. The Type 85 is so well protected that it can handle the full output of any amp without damage. In "SPEAKER" mode the Type 85 will distort at the equivalent of 1,700 watts into 8 ohms.

Q. How does the Type 85 use Phantom Power?

A. If your microphone input has 48 volt Phantom Power, the Type 85 will automatically switch off its battery and use the phantom. The Type 85 will operate with phantom voltages as low as 24 volts, but you will need to remove its internal battery first.

Q. How many hours will the Type 85 battery last?

A. A fresh alkaline 9V battery will run the Type 85 for 400 hours. That's 2 months running 8 hours a day, but only 2 weeks running all the time, so it's best to turn the Type 85 off when not in use.

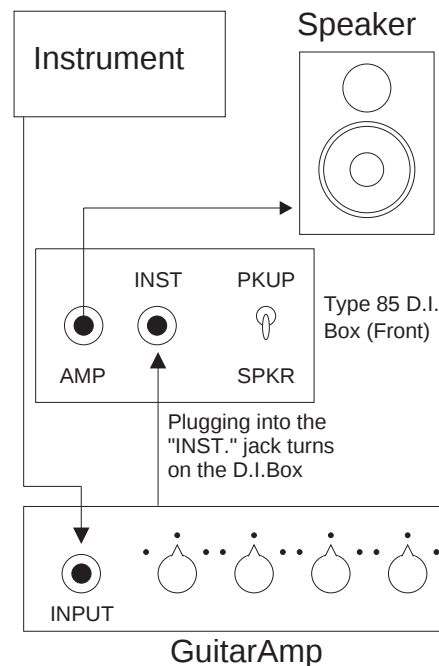
Q. How do I turn the Type 85 off?

A. Unplugging the plug from the Type 85 "INST." jack turns off the battery. Unplugging the "INST." jack does not turn off the Type 85 when it's running on Phantom Power, but it shorts the input to ground to reduce noise.

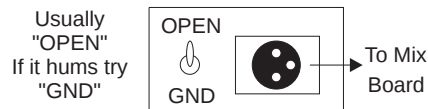
Q. I have a hum or buzz. What should I do?

Try both positions of the "GND." switch. If you are using an amplifier, try different positions on its grounding switch. Walk around the stage or room with your instrument and see if the buzz is worse near equipment or lights. If it is, you can ground or unplug their power cords if they are not in use. If the Type 85 is sitting on or near another piece of electronics equipment, move the Type 85 to see if a very strong hum field is penetrating the Type 85 internal shields. Power amplifiers, light dimmers, TV sets and video monitors can generate especially strong fields.

Typical Lead Guitar Setup



Type 85 D.I. Box (Back)



Specifications

Input Impedance:

Pickup Mode: 10MOhms
Speaker Mode: 10kOhms

Maximum Input Level:

Undistorted: 5V pp
Without Damage: 220V AC/DC, 15kv pp

Gain:

Pickup Mode: -12dB
Speaker Mode: -48dB

Output Source Impedance: 100Ohms

Frequency Response:

20Hz to 20kHz $\pm$ 0.5dB

Noise:

Equiv. to 2.0uV max at input
BW = 15kHz at 30kHz falling 12dB/Oct.

Distortion: 0.05% at 1kHz and 1V pp input

Power Requirements:

+48V at 0.4mA on microphone line or 1.5mA from a 9V battery (life with an Eveready #216 battery is about 300 hours)

Dimensions:

13/4" (45mm) high
3" (77mm) wide
5" (127mm) long

Weight:

181/2oz. (520g)