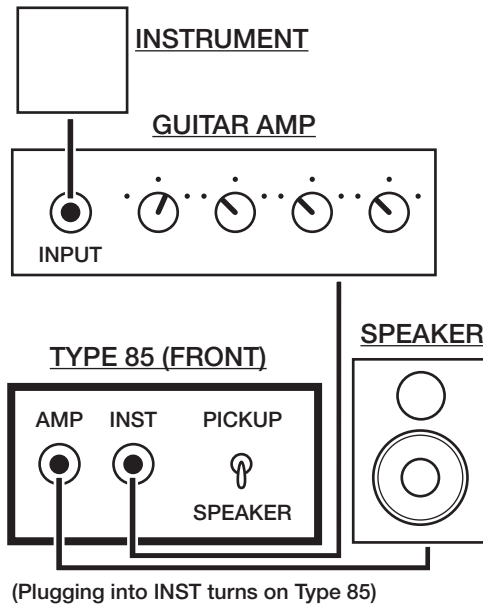


Using Your Type 85 Direct Box

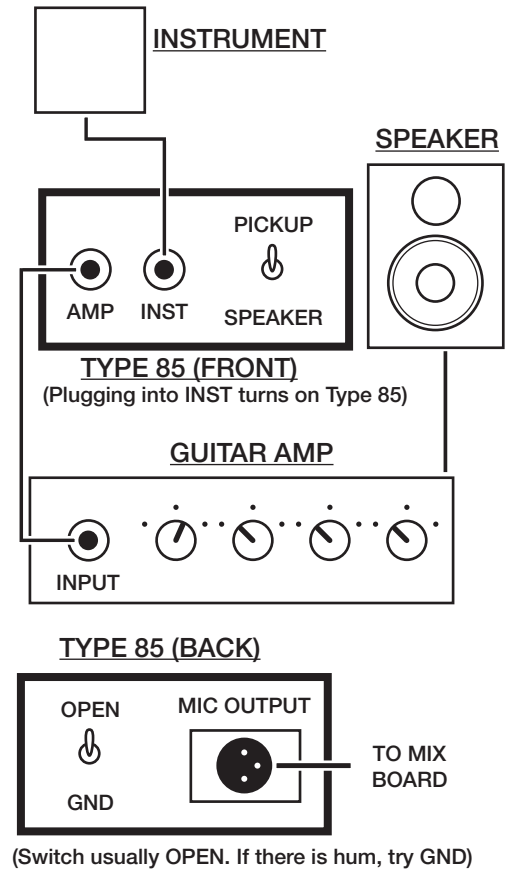


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Typical Lead Guitar Setup



Typical Bass Guitar Setup



Type 85 Frequently Asked Questions

Q: How do you hook up a Type 85?

A: The diagrams on the next two pages show 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 the TYPE 85 on. 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 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.

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." input 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 hum or buzz. What should I do?

A: 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 other equipment or lights. If it is, you can ground them 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.

Type 85 Specifications

Input Impedance

Pickup mode: 10 MOhms
 Speaker mode: 10kOhms

Output Source Impedance:

100 Ohms

Output Load Impedance:

100 Ohms to infinity

Gain:

Pickup mode: -12 dB
 Speaker mode: -48 dB

Maximum Input Level:

Undistorted: 5Vpp
 Without damage: 220V AC/DC, 15kV Peak

Frequency Response:

20Hz to 20kHz ± 0.5dB

Noise:

Equivalent to 2.0uV maximum at input
 BW=15kHz and the input shorted

High Frequency Rolloff:

-3dB at 30kHz falling 12dB/Oct.

Distortion:

0.05% at 1kHz and 1Vpp. input

Power Requirements:

+48V at 0.4mA on microphone line or 1.5mA from a 9V battery (300 HourLife)

Dimensions:

1 3/4" (45mm) x 3" (77mm) x 5" (127mm)

Weight:

18 1/2 oz (520g)