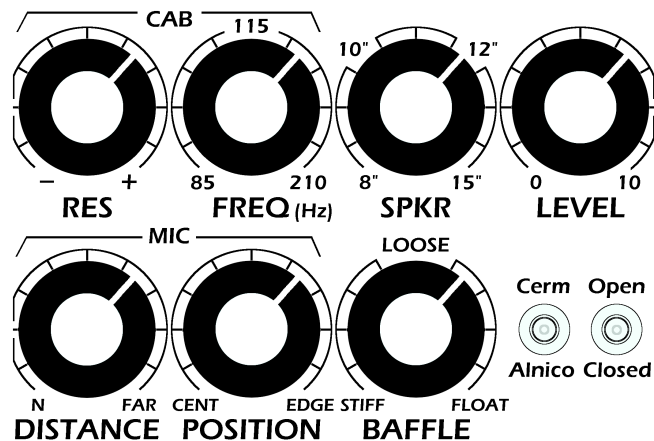


AXIOM

SPEAKER CAB EMULATOR SCE-1

USER'S MANUAL

www.AXiomEffects.com



RES: Increases cabinet resonance as the knob is turned clockwise.
FREQ(Hz): Adjusts the resonance frequency from 85 Hz to 210 Hz as the knob is turned clockwise. In general, larger cabs have lower resonant frequencies, 4x12 cabs resonate around 120 Hz, and smaller cabs resonate at higher frequencies - though this is influenced by speaker type and cab design.
SPKR: Adjusts the speaker size from 8" to 15" as the knob is turned clockwise. Larger speakers exhibit stronger resonance.

AXIOM SPEAKER CAB EMULATOR SCE-1

Speaker cabinet emulation devices can be broadly broken into two categories - analog and impulse responses (IR). IRs, while accurately capturing whatever cabinet and mic was used when the IR was taken, typically have very limited or no control options. They are fixed 'snapshots' of a specific, cab, mic and room combination and if you aren't happy with a particular IR you either have to accept it or search through a bank of IRs to find one you do like. Analog speaker cab emulators, while often giving more adjustment options are also often too dark, too fizzy, not complex enough, too comb filter-ish, or just get something wrong in the frequency response somewhere. Based on 82 cab and mic combinations, the AXIOM Speaker Cab Emulator SCE-1 was designed to address all of that by accurately reproducing the correct frequency response characteristics while providing extensive control over all the critical parameters. It gives you control over the resonant frequency of the cab, the speaker size, mic placement and distance from the grille, the speaker baffle type (stiff/fixed vs. floating), cab construction style (open vs. closed back) and speaker magnet type (ceramic vs. alnico).

- 100% analog circuitry
- True bypass

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LEVEL: Increases output volume as the knob is turned clockwise.
DISTANCE: Emulates the effect of increasing the mic distance from the cab grille as the knob is turned clockwise. Nearer mic distances (N) result in more phase interactions and a more complex comb filtered sound. Further mic distances (FAR) result in a smoother overall high frequency response.
POSITION: Reproduces the effect of changing the mic position. The tone gets darker as the mic is moved from the center of the speaker to the edge.
BAFFLE: Emulates cabinet baffle type. FLOATING and LOOSELY constructed baffles result in more mid presence. STIFF (i.e. fixed) baffles exhibit more phase cancellations in the 600 to 1000 Hz range.
Cerm/Alnico: Sets the speaker magnet type to ceramic or alnico. Ceramic magnets tend to produce extended high-end response and alnico magnets exhibit a stronger peak from 2 to 4 kHz.
Open/Closed: Sets the cabinet type to open or closed back construction. Closed cabs have a stronger resonance peak and open cabs have extended very low frequency response.

INPUT IMPEDANCE: 400 kOhm (minimum)
 CURRENT DRAW: 160 mA (maximum)
 POWER CONNECTION: 9Vdc 2.1 mm center negative adapter