

BOCKAUDIO

USER MANUAL: MODEL 5-ZERO-7

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1) The Bock Audio model 5-ZERO-7 is a high quality cardioid directivity studio condenser microphone utilizing vacuum tube electronics and a unique elliptical capsule. Utilizing the U47 format, originally built in the 1950's, this mic takes that platform and expands the electronics and capsule bandwidth. It utilizes it's own proprietary cable and power supply. The microphone's audio output is standard male XLR3, with positive excitation of the diaphragm at the front of the mic resulting in a positive voltage at the output XLR's pin 2. Audio output is fully transformer balanced.

2) The Bock Audio 5-ZERO-7 uses classic pentode run as single triode circuitry with no additional negative feedback and high quality through hole components. Through hole components are more mechanically robust than surface mount and allow for worldwide ease of repair. Single triode mic circuits demand excellent capsules before them and excellent transformers after them, with a reward of low noise, simplicity of troubleshooting, and classic sound unachievable otherwise. In addition this mic utilizes fixed cathode bias derived from the heater, as the original U47 did. The Bock 507 departs from the classic U47 of the 1950's in it's expansion of the bandwidth of the electronics, which has had it's low frequency cutoff frequency decreased from 40Hz to 10Hz, without any loss of high frequencies, by use of a larger value grid resistor.

3) It is recommended that the user place the mic in it's shockmount on a stand and connect all the cables before applying power to the unit. Allow a few minutes for the mic to warm up.

4) The Bock Audio N470 full linear power supply features simple choke fed shunt B+ regulation. The outputs and cable pinouts are:

- 1) audio (-)
- 2) audio (+)
- 3) pattern (if applicable)
- 4) heater (5.9v typical)
- 5) B+ (120v typical)
- 6) ground
- case) shield

5) CAUTION: Shock Hazard: Do not open microphone or power supply when connected to power source. No user serviceable parts inside. Refer failed units to qualified service personnel.

VORTICHT: Shock gefar: Bitte nicht daf mikrofon offen wenn es eingeschaltet ist einen stoppkontakt. Keine zu wartenden Teile im Inneren. Beziehen gescheitert Einheiten qualifiziertem Service-Personal.

ATTENCIONE: Choc hazard: N'ouvrez pas le microphone quand il y a un connectionne avec un source d'electricity. Aucune pièce réparable par l'utilisateur. Référer unités échoué à un personnel qualifié.

ATTEZIONE: Rischio di scossa: Non aprire il microfono quando e attaccato all'eletricita. Non contiene parti riparabili. Riferimento unità riusciti a personale qualificato.

Specifications:

Patterns:	Cardioid
Frequency Range:	10Hz to 18kHz, +/-2dB
Sensitivity:	26mv/Pa
Equivalent Noise:	18dB ("A" weighted) 32dB (unweighted)
Distortion vs.SPL @1kHz:	112dB = 0.5% THD 118dB = 1% THD 129dB = 2% THD (increasing distortion is non-exponential, nearly linear, and primarily 2nd harmonic)
Impedance:	200 Ohms true transformer balanced
Recommended load:	2k Ohms
Dynamic range (maxSPL-"A"noise):	94dB
S/N (94dB-noise):	76dB "A", 62dB unweighted
Capsule size:	1" x 1/2" dual backplate ellipse
Tube type:	New Old Stock EF814k
Dimensions:	2" dia x 8.5" oal (52x216mm)
Weight:	1lb 9.3oz (1.58lbs) =716g
Shipping weight:	13 lbs
Power Supply:	N470 true linear, factory wired 115v or 230v operation