

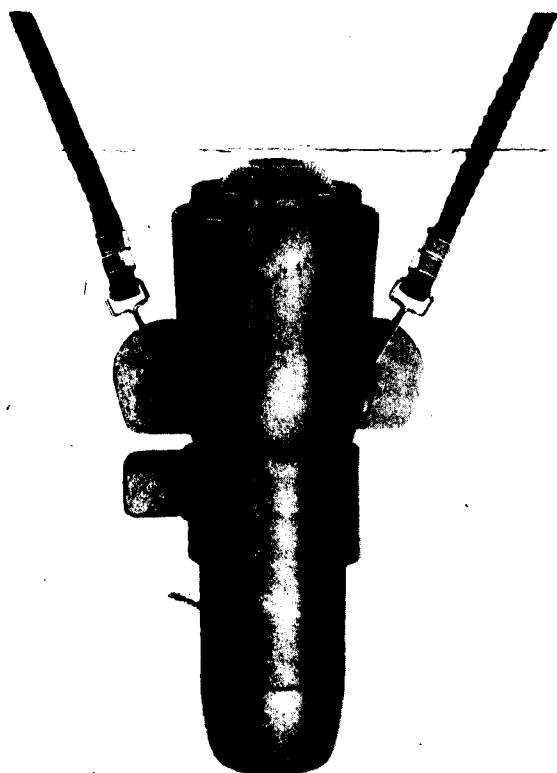
the TURNER co.
Cedar Rapids, Iowa

specifications . 220A microphone

turner 220A

s p e c i f i c a t i o n s

Figure 1
Model 220A Microphone



GENERAL:

The model 220A classic lavalier has been designed and engineered to overcome the specific problems inherent in all other broadcast type lavalier microphones. These engineering achievements make the 220A the finest microphone of its type to be available for radio and TV broadcast and high quality recording.

The model 220A has a pickup pattern that is non-directional up to about 3000 c.p.s. becoming somewhat directional at the higher frequencies. Of course, when used as a lavalier, the body of the wearer will modify the pattern appreciably.

The response is 60 to 20,000 c.p.s. The response has been tailored, as a result of exhaustive tests, to give faithful and natural reproduction of the voice when the microphone is suspended from the neck with the lavalier.

The model 220A is electrically phased so that a positive sound pressure will produce a positive electrical signal on the red (200 ohm connection) and white (50 ohm connection) cable conductors.

The output impedance may be either 50 ohms (for equipment with 35/80 ohm input) or 200 ohms (for equipment with 150/250 ohm input), selected at the terminal end of the cable as described below. For 50 ohm termination connect the black and white cable conductors to input terminals and for 200 ohm termination connect the black and red conductors to input terminals; cable shielding to be connected to the chassis (ground). In either case the third (unused) cable conductor should be insulated with electrical tape to avoid accidental short-circuiting of the microphone. It is advisable to provide an earthen ground for microphone and associated equipment to minimize shock hazard.

SPECIFICATIONS:

TYPE:	Pressure operated Dynamic
IMPEDANCE:	The model 220A allows a choice, interchangeably, of either 50 or 200 ohms
CABLE:	The model 220A is equipped with 25' plastic jacketed 3 conductor shielded cable.
OUTPUT LEVEL:	50 ohm—90 db: 200 ohm—84 db } (Zero db=1 volt per microbar) RETMA Gm Rating—156 db
FREQUENCY RESPONSE:	60 to 20,000 c.p.s.
CASE:	Aluminum
FINISH:	Neutral gray non-reflecting enamel
DIMENSIONS:	See Figure 3
WEIGHT:	5 oz less cable
POLAR PATTERN:	Essentially non-directional

TYPICAL FREQUENCY RESPONSE CURVE
FOR MODEL 220A

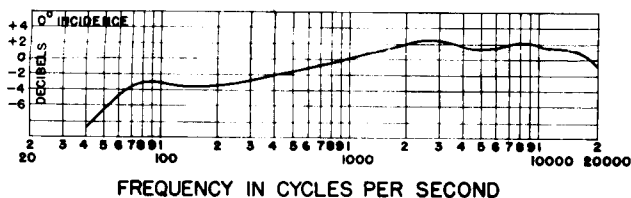


Figure 2—Response Curve



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TURNER model 220A microphone

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Figure 3 - Dimensions

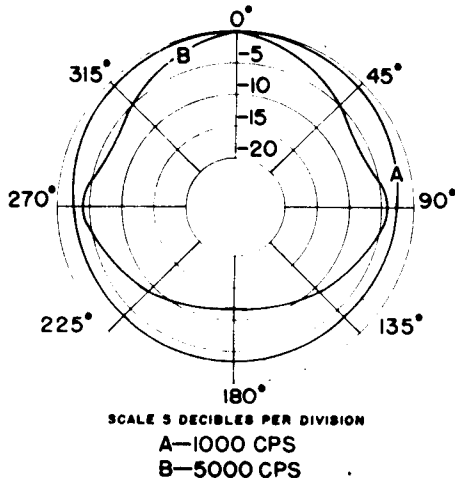


Figure 4 - Polar Pattern

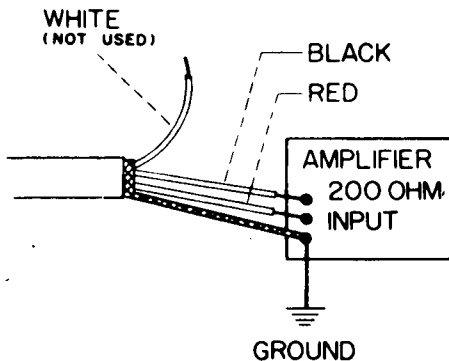


Figure 5 - Amplifier Connection

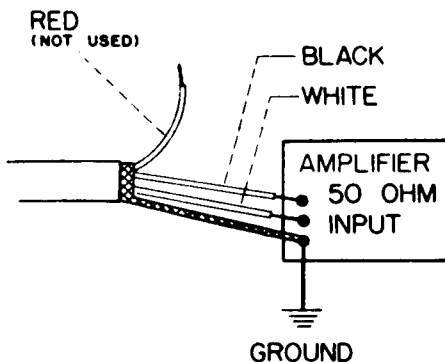


Figure 6 - Amplifier Connection

ARCHITECTS and ENGINEERS SPECIFICATIONS:

The microphone shall be a pressure operated dynamic type, Turner model 220A or equal. Frequency response shall be uniform from 60 to 20,000 c.p.s. and shall be substantially independent of direction to the sound source. Sensitivity as rated per RETMA GM shall be -156 db. The case shall be aluminum and shall be finished in neutral non-reflecting gray. The dimensions of the microphone shall be 1 1/8" maximum diameter and shall be 4" long. The diaphragm shall be of "Dynaflex" plastic having very high impact strength and shall be free from the effects of temperature variations and humidity. The microphone shall offer an impedance selection of 50 or 200 ohms selected at the free end of the cable. (See Figures 5 and 6.) The cable supplied with the microphone shall be three conductor shielded, plastic jacketed, 25' in length. The net weight of the microphone shall be 5 oz.

GUARANTEE:

All Turner microphones are individually and thoroughly tested before leaving the factory and are guaranteed against defective materials and workmanship for one year, providing that the instructions are fully complied with and that the units are not opened or tampered with in any way.



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