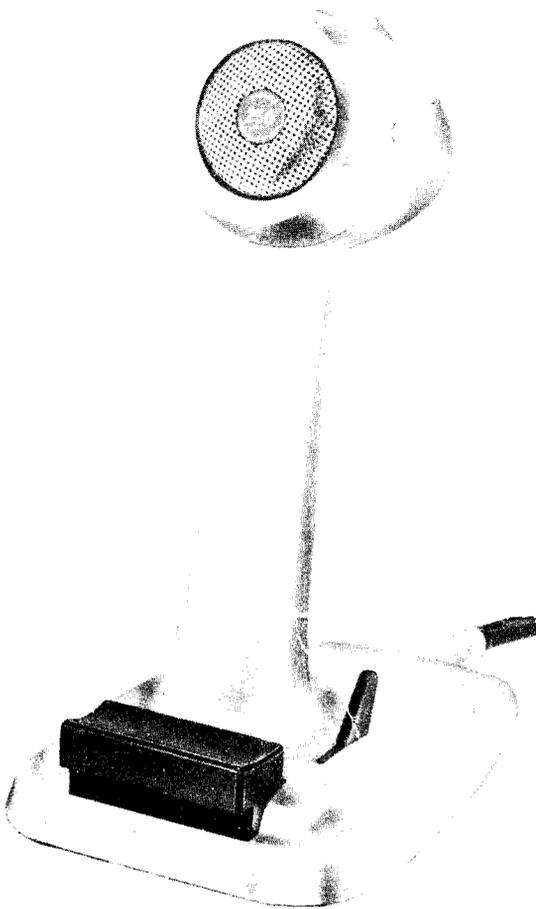


250 Series microphone specifications

turner 250 Series

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

Figure 1
Model 250 Microphone



GENERAL:

The 250 series is headlined by models 250, 251, and 256 the three models in the series with exclusive new triple switching action. A touch bar on-off switch with a locking lever for convenience in extended "talks" and an auto-lift switch in the base of the microphone. Lift it up, it's on — set it down, it's off. Plus a switch in the base to disable the Auto-lift switch if that feature is not to be used in a particular application.

All models in the series feature single unit die cast construction. One piece only. No accessories needed.

Excellent for use as police dispatcher, control tower, taxi dispatch, or paging in restaurants, bowling alleys and other communications fields, the model 250, (hi impedance dynamic) and 251 (low impedance) dynamic are rugged yet sensitive units. Both feature Turner's "Dynaflex" plastic diaphragms which are capable of withstanding extremes of both temperature and humidity. For line shorting switching, specify model 257 (for 250) or 258 (for 251).

Models 252, 253, 254X, 254C and 255 complete the series. Models 252 (hi impedance, dynamic) and 253 (low impedance) have a painted gray hammertone finish, and are without the auto-lift switch, and have 7' cable.

Models 254 and 255 are crystal microphones with gray hammertone finish and 7' cable. The model 254C has a ceramic interior. Models 254X and 254C are wired for switch relay operation. Model 255 is without switches. Models 254, 255 and 256 are excellent for amateur communications of all type. For line shorting switching specify model 259 (for 256).

The hi impedance dynamic models, 250, and 252 should be used with an amplifier having a high impedance input of 100,000 ohms or more. The 150 ohm models, 251, and 253 should be used with an amplifier having an input of from 50 to 250 ohms. Care should be taken when installing microphones to see that the cables do not run parallel to A.C. power lines for long distances as hum may be induced into the microphone circuit.

The crystal microphones in the series, models 254, 255 and 256 should be used with an amplifier having an input resistance of 1 megohm or more. Additional cable may be added without changing the frequency response, however, the addition of 20' of low capacity cable will result in a loss in output level. Avoid any use which might subject the microphone to excessive heat as this will permanently damage the microphone interior.

SPECIFICATIONS:

	250	251	252	253	254C	254X	255	256
TYPE	Dynamic	Dynamic	Dynamic	Dynamic	Ceramic	Crystal	Crystal	Crystal
IMPEDANCE	Hi	150	Hi	150	Hi	Hi	Hi	Hi
RESPONSE		60-10,000 c.p.s.			80-7,000 c.p.s.		60-8,000 c.p.s.	
OUTPUT LEVEL REF. 1 VOLT PER MICRO BAR	-52	-52	-52	-52	-54	-48	-48	-50
		Per Hi Z				Per Hi Z		
CABLE	20'	20'	7'	7'	7'	7'	7'	20'
CASE	All Models: Die Cast Zinc Alloy							
FINISH	Chrome	Chrome	Painted	Painted	Painted	Painted	Painted	Chrome
DIMENSIONS	All: See Figure 2							
WEIGHT	3 lbs.	3 lbs.	3 lbs.	3 lbs.	2½ lbs.	2½ lbs.	2½ lbs.	2½ lbs.
POLAR PATTERN	(All) Omni-Directional							
SWITCHES AND WIRING, SEE FIG.	3	4	5	6	7	7	8	9

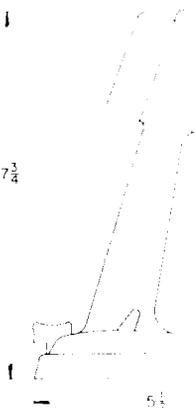


Figure 2



the TURNER company
Cedar Rapids, Iowa, U. S. A.

TURNER model 250 Series microphone specification

Figure 3

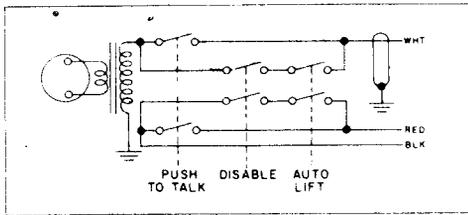


Figure 4

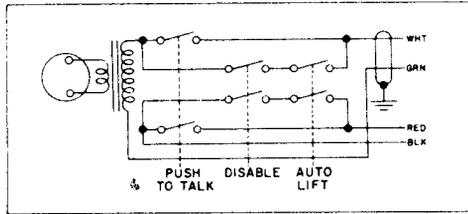


Figure 5

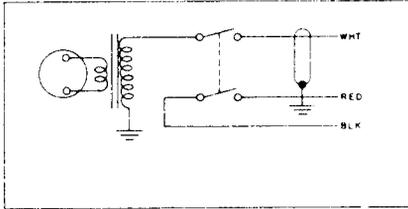


Figure 6

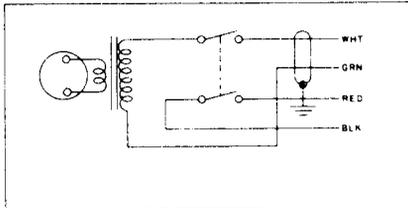


Figure 7

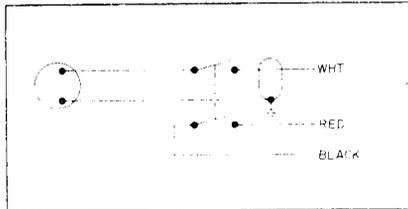


Figure 8

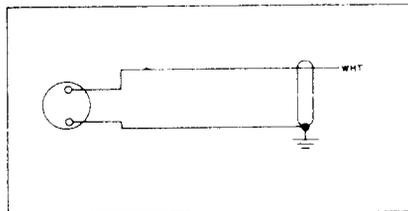
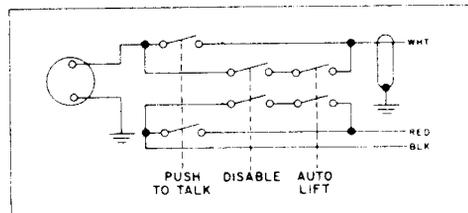


Figure 9



RELAY OPERATION:

All models except model 255 come with either three conductor (one shielded) or four conductor (two shielded) cable to allow the installer to wire for external relay operation. See figures 3 through 9.

CAUTION:

The amplifier chassis and other associated equipment should be connected to an earthen ground to avoid shock hazard during operation of the system.

ARCHITECT-ENGINEERS SPECIFICATIONS:

The microphone shall be a pressure operated dynamic, Turner Model 250 (251*) or equivalent. Frequency response shall be uniform from 60-10,000 c.p.s. (60-13,000 c.p.s.) and shall be substantially independent of direction to the source of sound. Sensitivity shall be -52 db at hi impedance (ref. 1 volt per dyne per cm²) and RETMA (GM) —146 db at 150 ohms.

The case shall be of one piece die cast zinc alloy with satin chrome finish. Dimensions shall be 5½" deep x 7¾" high x 3¾" wide. The diaphragm shall be of "dynaflex" plastic, having high impact strength and shall be independent of the effects of temperature and humidity. Microphone impedance shall be 25,000 ohms (150 ohms). * Cable shall be black three conductor, one shielded (four conductor, two shielded)* 20 ft. in length. The microphone shall be wired for relay operation. The microphone shall have the following switching arrangements: (1) Touch front bar to talk; (2) lift switch in base (3) on-off lever lock switch on the side of the microphone base and a switch to disable the lift switch in the base (underside). The weight of the microphone shall be three pounds including cable.

*When specifying model 251, substitute the values in parenthesis.

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 instructions are fully complied with and that units are not opened or tampered with in any way.



the TURNER company
Cedar Rapids, Iowa, U. S. A.