

## GENERAL:

The Turner 750 series sets a new standard for base station desk top and console paging applications. The rugged die cast zinc-aluminum alloy case is finished in professional brown with black plastic touch bar, slide lock switch and style ring.

Paging, Public Address  
and General Purpose

MODEL 751  
FIGURE 1



# SPECIFICATIONS

for

## 750 Series

### Paging Microphones

The well balanced non-tip case is mounted on rubber feet to prevent scratching and marring of desk tops. The upright portion of the case is designed with a forward tilt to allow convenient operation without requiring the operator to lean forward.

All 750 series dynamic microphones use a pressure operated dynamic interior featuring "Dynaflex" plastic diaphragms. These units are extremely rugged and have the ability to withstand extremes in both temperature and humidity conditions. This interior offers excellent sensitivity and wide range, smooth, peak free response. Frequency response is 60 to 10,000 Hz with an output level of -58 db. (ref. 0 db = 1 volt per microbar). Your choice of high impedance (model 750) or 150 ohm impedance (model 751 and 758).

The 750 series is designed for rugged extra long life with special consideration given to ease of field repair and service. For replacement of the dynamic interior merely remove the name plate on the back of the microphone head, then remove the screw which holds the front and cartridge to the upright portion of the microphone. The replacement interior includes a complete dynamic interior with grill, rolled on front, mounting cage and new name plate. Access to the switches and switch wiring is gained by removal of the 4 small screws on the bottom of the microphone.

#### MODEL 750

**Type:** Dynamic  
**Impedance:** High  
**Frequency Response:** 60 to 10,000 Hz  
**Output Level:** -58 (Re: 0 db = 1 volt per microbar)  
**Cable:** 20 ft.  
**Case:** Die Cast Zinc-Alloy  
**Finish:** Professional brown  
**Weight:** 2-1/2 lbs.  
**Polar Pattern:** Omni-Directional

#### MODEL 751

**Type:** Dynamic  
**Impedance:** 150 ohm  
**Frequency Response:** 60 to 10,000 Hz  
**Output Level:** -81 (Re: 0 db = 1 milliwatt per 10 microbar)  
**Cable:** 20 ft.  
**Case:** Die Cast Zinc-Alloy  
**Finish:** Professional brown  
**Weight:** 2-1/2 lbs.  
**Polar Pattern:** Omni-Directional

#### MODEL 758

**Type:** Dynamic  
**Impedance:** 150 ohm  
**Frequency Response:** 60 to 10,000 Hz  
**Output Level:** -81 (Re: 0 db = 1 milliwatt per 10 microbar)  
**Cable:** 20 ft.  
**Case:** Die Cast Zinc-Alloy  
**Finish:** Professional brown  
**Weight:** 2-1/2 lbs.  
**Polar Pattern:** Omni-Directional

# TURNER

## MICROPHONES

TURNER DIVISION OF CONRAC CORPORATION  
716 Oakland Road N.E., Cedar Rapids, Iowa 52402  
(319) 365-0421 • Telex: 464437

# 750 Series Microphone

## SWITCHING VARIATIONS

A variety of switching configurations is available in the 750 series. All models offer a convenient touch bar for easy "flick of the finger" operation and provide an extra set of contacts in the base for operation of an external relay. The cable on the model 750 is 3 conductor, 1 shielded, and on the models 751 and 758 is 4 conductor, 2 shielded to allow for relay operation. A switch "slide lock" is conveniently located on the base to lock the switches on for continuous transmission. The extra long life leaf type switches are rigidly mounted up in the die cast portion of the base and seldom, if ever, need readjustment. See FIGURE 2, 3, and 4 for the wiring diagrams on the model 750 hi impedance, model 751 low impedance, and model 758 low impedance with line shorting switching. Additional space is available with the case for mounting additional switches for special applications.

## ARCHITECT-ENGINEERS SPECIFICATIONS:

The microphone shall be a pressure operated dynamic, Turner Model 750, 751, or equivalent. Frequency response shall be uniform from 60-10,000 Hertz and shall be substantially independent of direction to the source of sound. Sensitivity shall be -58 db at hi impedance (ref. 0 db = 1 volt per microbar) and EIA (GM) -146 db at 150 ohms.

The case shall be of die cast zinc alloy with Professional Brown finish. Dimensions shall be 6" deep x 9" high x 4" 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)\*. Cable shall be black three conductor, one shielded (four conductor, two shielded)\* 20' 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) on-off slide lock switch on the side of the microphone base. The weight of the microphone shall be 2-1/2 pounds including cable.

\*When specifying model 751, substitute the values in parenthesis.

## APPLICATION:

The high impedance dynamic, model 750, should be used with an amplifier having a high impedance input of 100,000 ohms or more. The low impedance models, 751 and 758, should be used with an amplifier having an input impedance of 50 to 250 ohms. You may use unlimited cable length on the models 751 and 758 without deterioration of the performance but cable length on the high impedance model, 750, should not exceed 20'. Care should be taken when installing microphones to see that cables do not run parallel to A.C.-power lines for long distances as hum may be induced into the audio circuit.

## CAUTION:

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

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## CONRAC

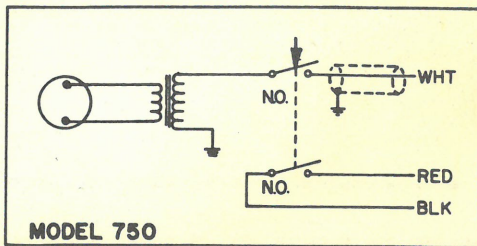


Figure 2

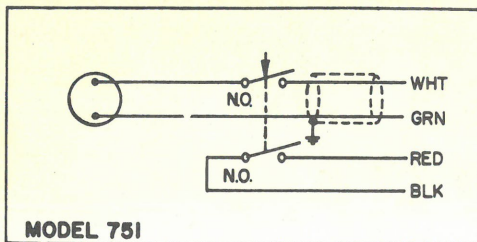


Figure 3

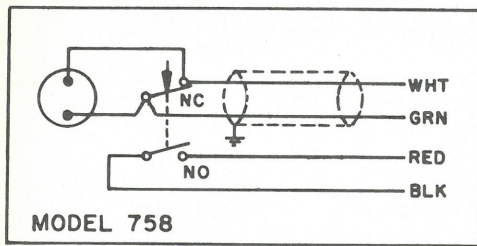


Figure 4

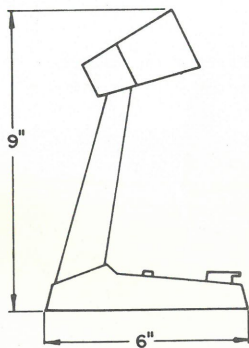


Figure 5

### GUARANTEE

All Turner 750 microphones are individually and thoroughly tested before leaving the factory and are guaranteed by the Turner Division, Conrac Corporation, against defective materials and workmanship for one year, provided that the instructions are fully complied with and that the units are not opened, except for battery replacement, or tampered with in any way. Microphones covered by this warranty should be returned to the factory and will be repaired or replaced at no cost other than transportation one way.