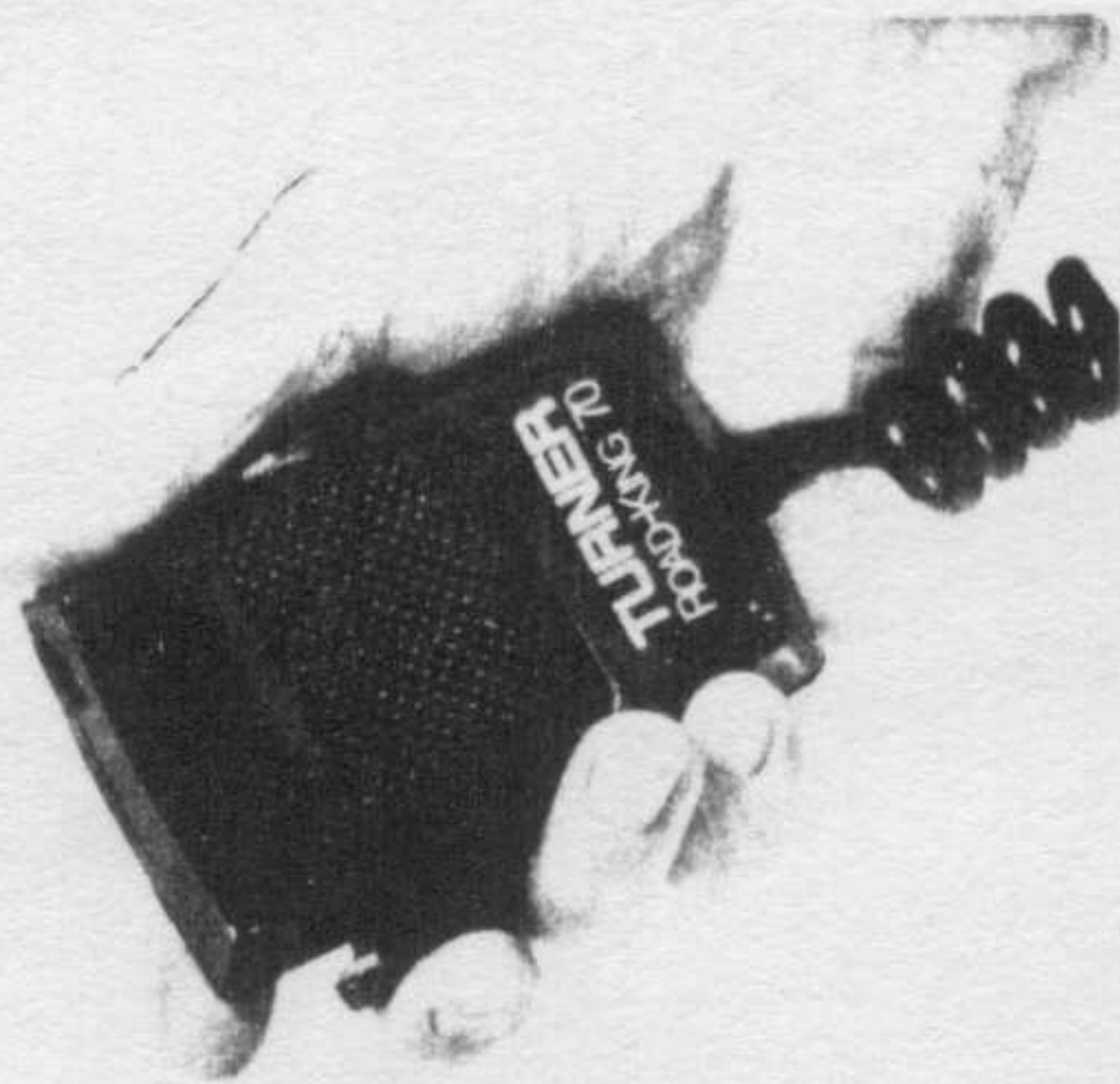


# SPECIFICATIONS for

## RK 70 RK 70J RK 76

### Noise Cancelling Amplified Microphones



**Generating Element:** Ceramic  
**Sensitivity (at compression threshold):**  
 -43 db (0 db = 1 volt per microbar)  
 1 megohm load  
 -49 db (0 db = 1 volt per microbar),  
 1000 ohm load  
**Discrimination:** Avg. 14 db 300 to 3500 Hz  
**Amplifier Voltage Gain:** 0 to 15 db  
**Gain Control:** Slide actuated button  
**Frequency Response:** 300 to 3500 Hz  
**Output Impedance:** 3500 ohms  
**Temperature Range:** -30°C to +65°C  
**Power Supply:** Ray-o-vac #1501 (or equivalent),  
 7 volt Mercury Battery, included  
**Battery Drain:** 0.9 ma.  
**Battery Life:** 6 months under normal usage  
**Cable:** 3CIS, coiled cord, 11" retracted, 5'  
 extended, black jacket  
**Weight:** 260 grams (9.2 oz.) with cable  
**Case:** Black Cycolac with black wire mesh screen

## TURNER MICROPHONES

TURNER DIVISION OF CONRAC CORPORATION  
 716 Oakland Road N.E. Cedar Rapids, Iowa 52402  
 (319) 366-8311 • Telex 464437

## Transistorized Mobile Microphone

The RK 70 Series was designed to fill the need of a mobile microphone with high average modulation level capability. It is for use with all types of communication transmitters and transceivers, particularly business radio and CB.

The RK 70 Series can be easily adapted to almost any transmitter. The white wire is the signal ("hot") lead and the shield provides a ground connection between microphone and transmitter case/ground. The necessary control switching is provided as shown in Figure 1, 2 and 3. When replacing another microphone with the RK 70 Series, consult the equipment manual for proper wiring of the connector (if connector is used). If an equipment manual is not available, then care should be taken to analyze the microphone being replaced to determine connector connections and type of switching needed. Experience indicates that most difficulties in replacing a microphone occur as a result of poor workmanship in making up the connector. Avoid excessive heat which can damage insulation and keep exposed leads short to prevent shorting within the connector.

In case of difficulty, please do not tamper with the microphone as this will void the factory warranty. Consult Turner connection manual or contact factory for further instructions. (When writing factory for information please include set schematic).

**A LOSS IN MODULATION LEVEL MEANS A LOSS IN EFFECTIVE COMMUNICATIONS RANGE OF YOUR EQUIPMENT.**

The RK 70 Series is designed to be used at a 1/4 inch, this distance being the most natural for mobile communications. At this distance, background noise is minimized. The volume control should be set initially at 1/3 to 1/2 of full range. Remember this is a starting point and your modulation level should be verified on a monitor scope. The RK 70 Series is designed to operate at slightly above the threshold of limiting when used at the specified distance at normal voice level. The limiter range is 15 db. The wide range in output level allows you to compensate for variations in the audio input sensitivity of the many transmitters available.

The RK 70 Series is wired for relay switching (closing an external set on contacts — no connection to ground). The RK 70J is wired for "electronic switching." The RK 76 is the same as RK 70, but with 6 wire cable for adaptability to electronic or relay switching. (The most common type of electronic switching is alternate switching of two wires to ground).

The additional switching contacts provided by the three pole double throw switch in the new RK 70, RK 70J and RK 76 give them greater switching flexibility and allow for compatibility with virtually all transceivers, either tube type or transistorized, except in most cases those which require a carbon microphone.

### BATTERY MAINTENANCE:

Remove door in rear case by turning the hanger button counter clockwise. Remove battery from inside of door. Install new battery, making sure to observe polarity then replace door and tighten hanger. **NOTE:** Your new RK 70 is shipped from the factory with battery furnished, packed loose in box to prevent corrosion. It will be necessary to install battery before attempting to use your microphone.

FIGURE 2

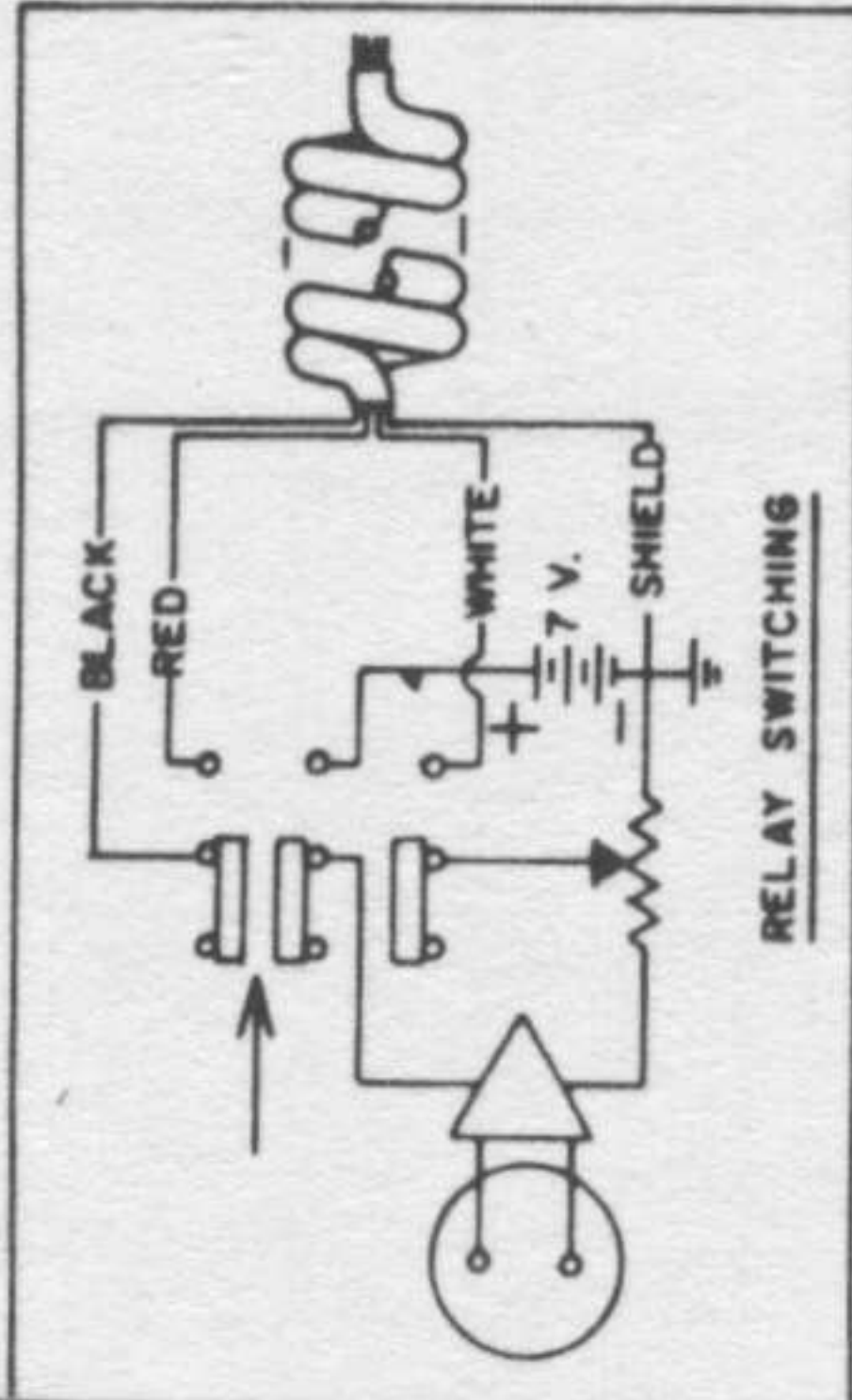
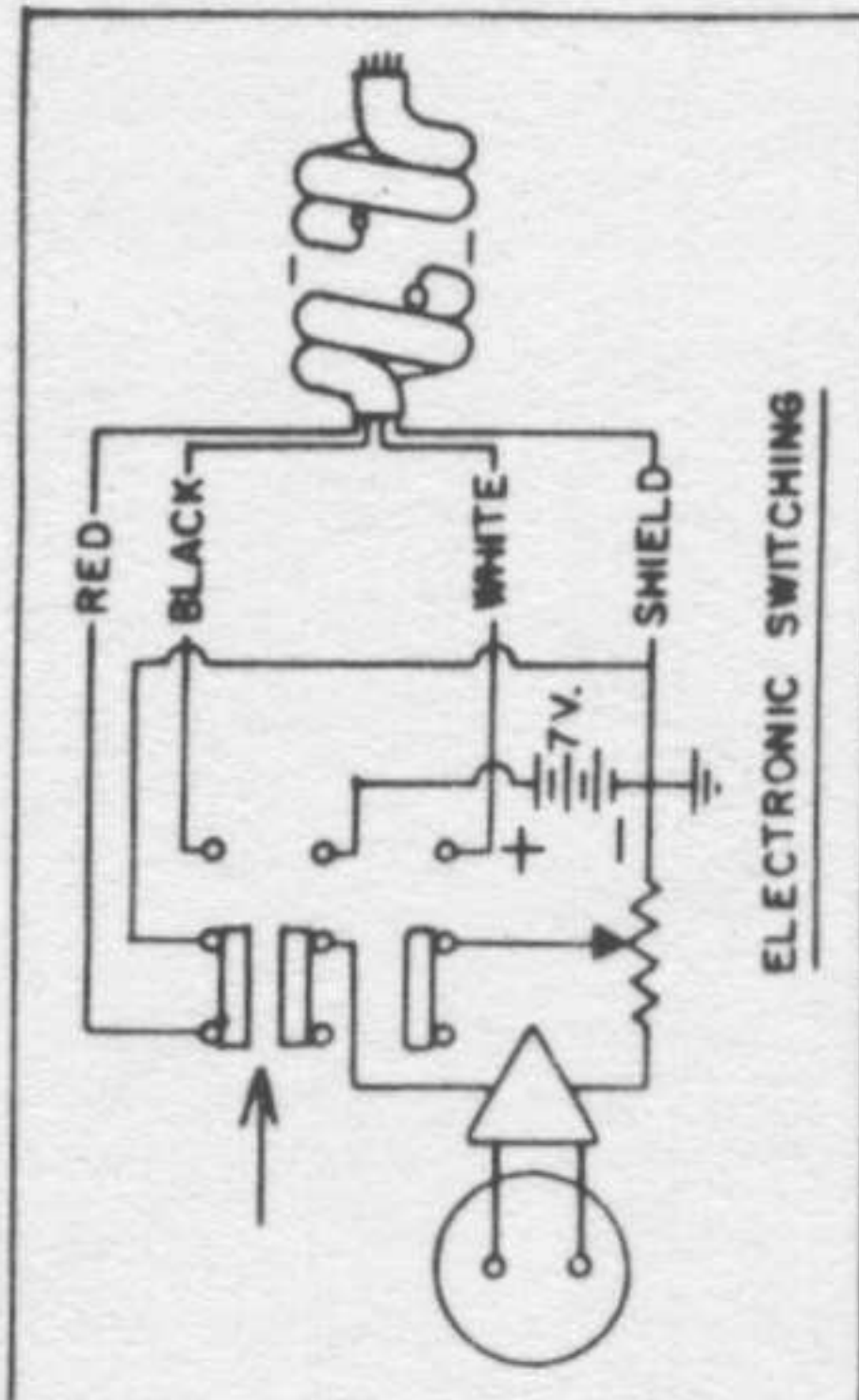


FIGURE 3



## TURNER MICROPHONES

TURNER DIVISION OF CONRAC CORPORATION  
 716 Oakland Road N.E. Cedar Rapids, Iowa 52402  
 (319) 366-8311 • Telex 464437

**CONRAC**

PRINTED IN U.S.A.