



 **KENWOOD HAM CARDIOID DYNAMIC MICROPHONE MC-50**

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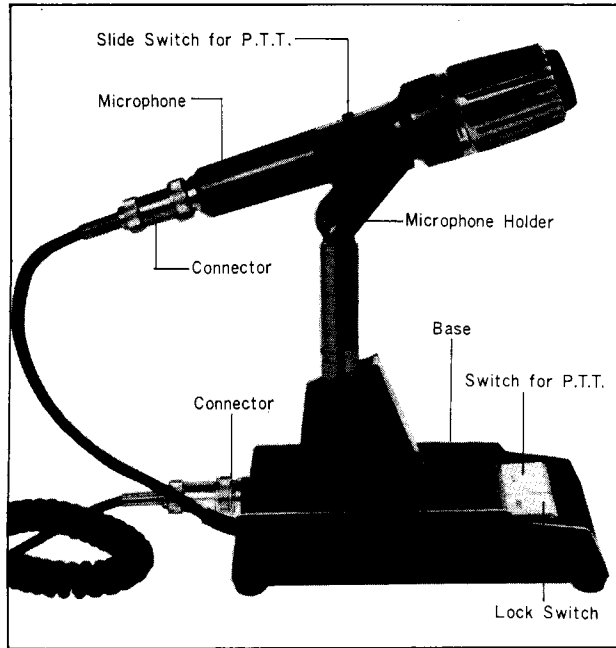
INSTRUCTIONS MANUAL



**KENWOOD**

**HAM CARDIOID  
DYNAMIC MICROPHONE**

**MC-50**



Thank you for purchasing the MC-50. Although this microphone has been manufactured under strict quality control, accidents during transit or other problems are conceivable. In such cases, please contact the store from which you purchased the MC-50, a Trio Service Center, or a Trio Business Office, without delay.

The MC-50 Microphone has been designed expressly for amateur radio operation, as a high-performance type which matches all Trio Amateur Equipment requiring a microphone. It will be a splendid addition to your shack. "Piano key" switches in the base provide an easy, smooth means of switching between transmission and reception.

The base itself is die-cast from zinc, adding weight which makes the MC-50 stay put even at a rapid switching pace.

## SPECIFICATIONS

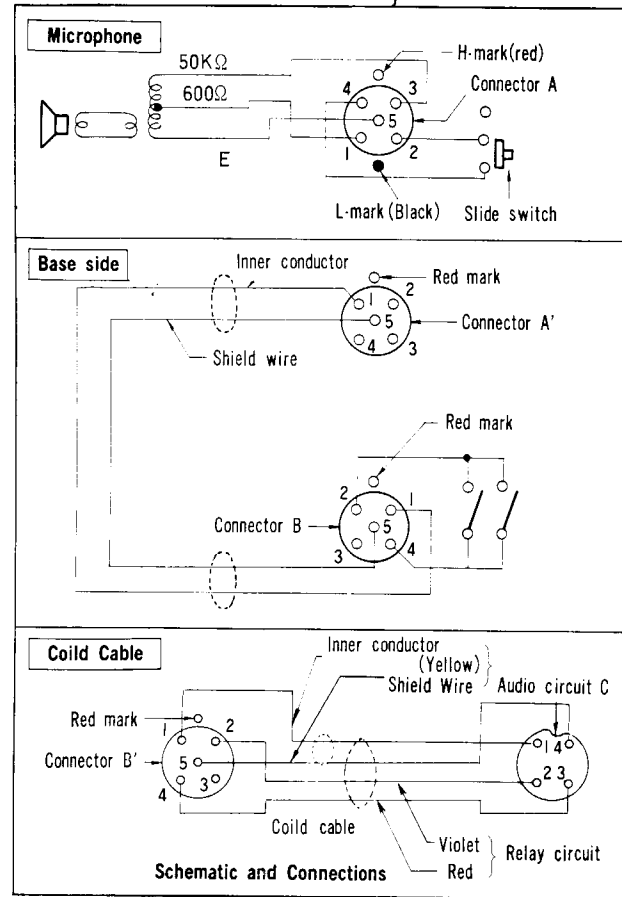
Configuration	Dynamic microphone with push-to-talk circuit, for amateur radio operation.
Element	Moving coil type, unidirectional.
Impedance	Dual ratings: 50 k $\Omega$ $\pm$ 30% (at 1000 Hz) 600 $\Omega$ $\pm$ 30% (at 1000 Hz) (Connector switching)
Sensitivity	- 56 dB $\pm$ 3 dB/50 k $\Omega$ - 76 dB $\pm$ 3 dB/600 $\Omega$ (0 dB = 1V/ $\mu$ bar, 1000 Hz)
Frequency response	From 150 Hz to 10 kHz (-6 dB)

## USING YOUR MC-50

"Piano key" switches provide for real flexibility in the send-receive switching operation, and for smooth transition. There are two keys, one for the push-to-talk function and the other for a locking function. To lock on the transmitter, merely push the lock key. Again pressing this key returns the system to receive.

Join connectors so that the red mark of connector B (base) and the red mark of connector B' (coiled cord) face the same direction. If the microphone is to be used without the base, connect the coiled cord (w/plug) directly to the microphone. At this time, the slide switch on the microphone itself may be used to control transmission and reception. Shifting this switch toward the element closes the relay circuit.

Matching the H-mark (red) of connector A (microphone) to the red mark of connector A' (base input cord) sets the microphone impedance to 50k ohms. Conversely, matching the L-mark (black) on the microphone side to the red mark on the base input cord side sets the microphone impedance to 600 ohms. This procedure is also used the when microphone is employed separately from the base.





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**TRIO ELECTRONICS, INC.,**  
TOKYO, JAPAN.

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# HAM CARDIOID DYNAMIC MICROPHONE MC-50

## INSTRUCTIONS MANUAL



The MC-50 has been designed expressly for amateur radio operation as a high-performance microphone, and will match all Trio-Kenwood Amateur Equipment. A splendid addition to your shack, the base unit "Piano key" switches provide easy, smooth switching between transmit and receive. The base is die-cast zinc, providing the weight necessary to make the MC-50 stay put even at contest speeds.

### SPECIFICATIONS

<b>Configuration</b>	Dynamic microphone with push-to-talk circuit.
<b>Element</b>	Moving coil type, unidirectional.
<b>Impedance</b>	Dual ratings: Hi-Z 50 k ohm $\pm 30\%$ (at 1000Hz) Lo-Z 600 ohm $\pm 30\%$ (at 1000Hz) Selectable: Connector "A" switching
<b>Sensitivity</b>	-56dB $\pm 3$ dB/50 k ohm -76dB $\pm 3$ dB/600 ohm (0dB=1V/ $\mu$ bar, 1000Hz)
<b>Frequency response</b>	150Hz to 10KHz (-6dB)
<b>Recommended Operation</b>	
<b>Distance to mic.:</b>	10CM (4") Minimum Distance

### OPERATION

The "Piano key" switches provide flexibility in send-receive switching. There are two keys; one for push-to-talk, and the other for Lock key function. To lock the transmitter ON, press the Lock key. Pressing again returns the system to receive.

### INSTALLATION

#### Impedance Selection.

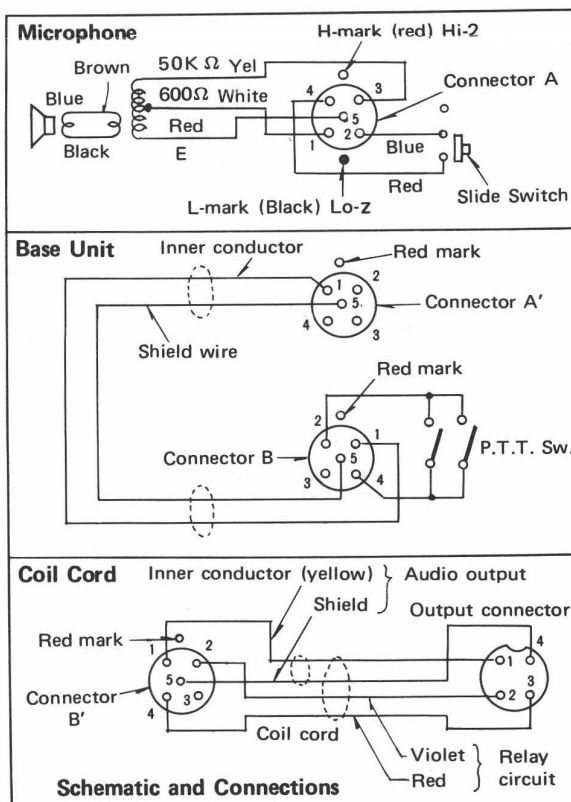
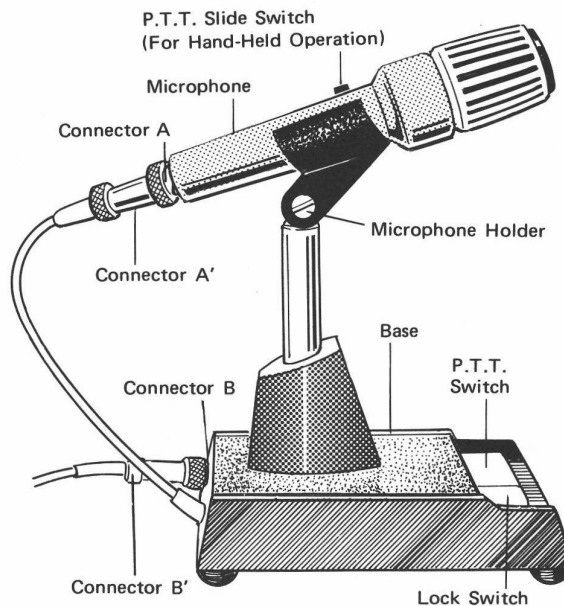
The microphone mounted male connector A is imprinted with a RED H (Hi-Z) and a BLACK L (Lo-Z).

For Hand Held operation, align the Coil Cord connector B' with the appropriate H or L marker. Use the Slide Switch for P.T.T. operation.

For Base mounted operation, align connector A' RED marker with the appropriate H or L marker. When Base-mounted, the Microphone Slide P.T.T. Switch is inoperative-use the Key Switches.

Join the Coil Cord 5 pin female connector B' to the Base 5 pin male connector B so the RED markers align.

Connect the Coil Cord 4 pin female connector to your transceiver.



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