

COMMUNICATION MICROPHONE

MC-80

INSTRUCTION MANUAL

FEATURES

The MC-80 is designed for use with a wide range of communication equipment.

UP/DOWN frequency switching and a preamplifier are provided. The silver and dark gray colors of the microphone match other communication equipment.

BEFORE OPERATION

1. Power supply

Since the MC-80 uses an electret condenser microphone, power is required for operation. If your transceiver as shown in the table below will require batteries, install batteries according to the following.

- (1)Obtain four (4) common "AA" cells.
- (2) Remove the lid as shown in Fig. 1. Install the batteries observing correct polarity. Replace the lid.
- (3) After the batteries are installed, place the POWER switch ON and verify that the LED lights.

2. Connection to transceiver

As shown in Fig. 2, the MC-80 has a standard Kenwood 8-pin MIC connector. Connecting the microphone to a transceiver with 4-pin or 6-pin MIC jack requires an optional adapter plug. Connection with equipment other than Kenwood may require either reconnection of the plug, or a different type plug. Refer to the instruction manual for necessary wiring details.

3. Operation

Turning the POWER switch on lights the POWER ON LED to show the mic is operating.

(1) Volume adjustment

A potentiometer to control the sound output level is located at the rear of the mic stand panel.

Adjusting the POT varies the output from 0 to 10 mV. A -50 dB setting (approx. 3.3 mV output) is preset at the factory. For normal operation, use this setting.

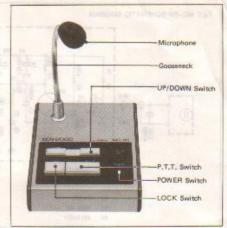


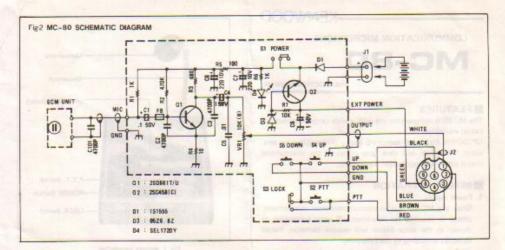
Fig. 1 Battery installation



(2) PTT and LOCK switch operation

Use the PTT or LOCK switch to transmit. Holding the PTT switch depressed allows transmission and releasing the switch returns operation from transmission to reception. Depressing the LOCK switch once allows transmission. The transmit mode remains ON after the switch is released, Depressing the switch again switches from the transmit mode to receive mode. The PTT switch is used for rapid OSO exchanges. The LOCK switch is used for relatively long transmissions.

Transceiver	Mic jack	Mic connection and adapter	Power supply	Note
TM-201A, TM-401A TR-7930, TR-7950 TS-430* series TS-930* series TS-660, TS-780*	8 pin	Adapter not needed.	Supplied from the transceiver	*1 Some of the MIC terminal in these models do not apply power to the microphone, (Refer to your transceiver instruction manual.) In this case, use 4 "AA" batteries.
TW-4000A*2	8 pin		Use 4 "AA" batteries.	•2 Radios with power available at the mic connector (for autopatch microphones) will not require battries.
TR-7700/8400*2 series TR-9000*2 series	6 pin	Use MJ-86 adapter		
TR-7200/7500 series TS-120/130 series TS-520/530 series TS-820/830 series	4 pin	Use MJ-84 adapter		
Transceiver of another manufacturer	Refer to the transceiver owners manual: change the wiring or use an adapter.			X from RV stooms a proper stoom configuration of the configuration of th



(3) VOX operation

Switching from the receive mode to the transmit mode by your voice is called VOX (voice operated transmit) operation.

There is no need to touch the PTT or LOCK switch. Whether or not the VOX operation is possible depends upon whether the transciever or transmitter used is VOX-equipped. For VOX operation, set up the transceiver and turn on the MC-80 power.

Speaking into the microphone automatically switches the associated transceiver to transmission. When you stop speaking, the transceiver automatically returns to the receive mode. Usually, a relay is used in the transceiver for switching between transmission and reception, Relay "click" may be heard from the transceiver when switching from transmit to receive or vise-versa. For VOX operation details, refer to the transceiver instruction manual.

(4) Modulation level

Since the MC-80 employs an electret condenser microphone, speaking close to the microphone may sometimes result in reduced clarity. For normal operation, maintain 10-15 cm distance to the microphone. The optimum modulation level may vary depending upon the transceiver and operating conditions. Adjust the transceiver MIC level control, referring to the transceiver instruction manual,

(5) Output impedance

The following are typical impedance of Kenwood communications equipment:

HF equipment +---- 50k ohms VHF & UHF equipment 500 ahms The MC-80 is set for 700 ohms so it can be used with all equipment types.

(6) UP/DOWN switch operation

Equipment having a remote UP and DOWN tuning system can be controlled from the UP/DOWN microphone. For equipment without remote tuning, the mic UP/DOWN switches are not used.

PRECAUTIONS

- 1. Do not disassemble or otherwise modify the mic assembly, or the original mic characteristics may be altered.
- The microphone is delicate. Be sure not to jar or shock the microphone element,
- 3. Ensure that power is turned off when the mic is not used.
- When the battery voltage drops due to depletion, the power output will drop and distribution may occur. Replace the battery for these indications.

SPECIFICATIONS

Mic unit Omnidirectional electret condenser.

.... Approx, 700 ohms ± 30% at Output impedance

1,000 Hz

Sensitivity (0 dB =

1 V/# bar, 1,000 Hz) ... -34 dB ± 6 dB (VR MAX.)

Sensitivity when shipping - 50dB \pm 6 dB Frequency characteristic . 200 \sim 7,000 Hz (\pm 6 dB)

Power supply (Battery operation)

6 V (4 x "AA" cells)

Current comsumption . . Approx. 7mA

(Batteries can be used more

than 500 hours)

700 g

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