■KENWOOD

COMMUNICATION MICROPHONE

MC-85

INSTRUCTION MANUAL

FEATURES

colors match the various KENWOOD communication units nication equipment. The microphone's silver and dark gray The MC-85 is designed for use with a wide range of commu-

- 1. Employs a high quality uni-directional electret condenser tics and prevent pickup of undesirable noise. microphone. Gives excellent high frequency characteris
- 2. Complete with an UP/DOWN switch and an electronic LOCK-PTT switch.
- 3. The microphone has an output select circuit and can be connected to three transceivers,
- 5. Microphone output is indicated by a level meter. 4. Because of the built-in limiter circuit, voice can be heard more clearly. This makes it ideal for DX operation,
- 6. A sound quality select circuit is provided, which can be switched between DX and local operation.
- 7. Power ON/OFF and transmitting are indicated by LEDs.

Controls and their functions [Fig-1]

microphone. A windscreen is supplied. The MC85 is a uni-directional electret condenser

3) MODE/POWER switch This allows the microphone to be easily repositioned, The MC-85 uses a gooseneck to hold the mic unit.

4) TONE switch

communications, set the switch to NORMAL. When the built-in compressor. Placing the POWER switch on turns on the unit and Used to change transmitter sound quality. For normal lights the LED (11). Switching to COMP, IN activates

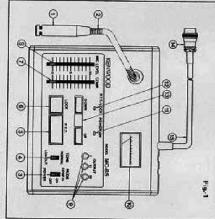
5) PTT switch

additional clarity is needed, set the switch to LOW

caption. There is no need to depress it forcefully. leasing it switches the unit from transmission to re-Depressing the PTT switch allows transmission and re-

5) LOCK switch

for transmission, the LED PTT/LOCK (12) lights red. Use either switch (5) or (6) according to the type of mode. This switch is used for long transmissions. pressing the switch again returns the unit to the receive communications. When either of these switches is used Depressing the switch once allows transmission. De-



7) Audio level compensation control

built-in Audio Level Compensation. This slide control is used to control the level of the

8) Mic level control

This slide control is used to control the mic gain.

9) Output select switch

ceivers can be used with this microphone. connected to the MC-85. Then, up to three trans-For use of switch II or III, an optional PG-4 should be cable is connected to I. Therefore depress the I switch. Depressing the switch selects the output. The output

10) Level meter

11) POWER ON LED Indicates the output level,

is in the operation. Lights when the power is ON and shows that the MC-85

12) PTT/LOCK LED

indicates transmission mode. Lights when the PTT or the LOCK switch is ON and

13) UP/DOWN switch

functions and shifts the operating frequency up or function, the operation of this switch is disregarded down. For a transceiver without an UP/DOWN tuning This switch interconnects the transceiver's UP/DOWN

14) Mic connector

ship between the microphone and Kenwood equipinternal wiring connection. Table 1 shows the relationtion. When connecting the microphone to a mic jack other than 8-pin, use an adaptor plug. Fig. 2 shows the The MC 85 employs a standard 8-pin plug for connec-

15) Output cable Length: 1 m

. 6 conductor cable

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TR-7200/7500 series TS-120/130 series TS-520/530 series TS-820/830 series

4 pin

PG-40

at the mic connector (for autopatch microphones) will Radios with power available

not require batteries.

TR-7700/8400** series TR-9000** series TW-4000A**

8 pin

6 pin

PG-4E needed

Use 4 "AA" batteries.

TS-430" series TS-930" series TS-660, TS-780"

TR-7930, TS-430**

TM-201A, TM-401A Transceiver

TR-7950

8 pin

PG-4F

Supplied from the transceiver

Some of the MIC terminal in these models do not apply power to the microphone, (Refer to your

In this case, use 4 "AA" batteries

Adapter

jack Mic

Mic cable and adapter

Power supply

Note

BEFORE OPERATION

Transceiver of another manufacturer

Refer to the transceiver owners manual: change the wiring or

batteries, install batteries according to the following. your transceiver as shown in the table above will require and mic-amplifier, power is required for operation. If Since the MC85 uses an electret condenser microphone

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

2. Mic plug connection

(in). With either switch II or III depressed, no mic output ceiver having other than an 8-pin mic jack, use an optional is present at mic plug I. adaptor. Be sure output select switch I (9) is depressed Connect the mic plug to the transceiver. For a trans

mode (SSB, FM, etc.). After this initial set-up, set the transceiver to a phone

3. Voice level setting

is carefully checked in the transmit mode. load be connected to the transmitter and the ALC level usually provides enough modulation. Prior to trans-However, a mic output level less than or equal to -50 dB the PTT switch depressed, and adjust the MIC LEVEL mitting or operating, it is recommended that a dummy input level varies depending upon the transmitter. volume. Then verify the transmitters output. The optimum Speak into the microphone with your normal voice and Before transmitting, set the mic level of the MC-85

4. Use of the Audio Level Compensation

The MC-85 has a built-in audio level compensation circuit frequencies when used properly. which maintains a constant audio level at various voice

properly. with your MC-85, always use the compensation circuitry the voice peaks. This function, prevents splatter and improves the readability of weak signal. For best results The limiting circuit raise the average output by leveling It especially effective when your signal is weak.

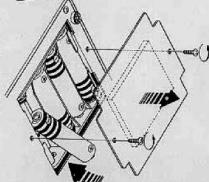


Fig. 2 Battery installation

to a preemphasis network in FM equipment. the particular station. This circuit is similar in operation tion with background noise. Adjust the level according to contest, latenight operation at low voice levels, or opera-The level setting will vary depending upon DX operation,

ex. For an SSB transceiver, run the transceiver mic gain for a meter, without excess background noise. pression for an on-scale ALC reading on the radio's 10 - 15 cm distance to the microphone, adjust comapproximately -50dB on the built-in meter. Maintain low (% scale) ALC reading. Set the MC-85 mic level for