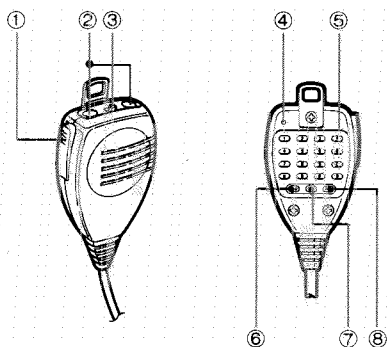


# ICOM INSTRUCTIONS

HAND MICROPHONE  
(with DTMF MEMORY)

HM-77  
HM-77A

## PANEL DESCRIPTION



- ① **PTT (Push-To-Talk) SWITCH**  
Push to transmit.
- ② **UP/DOWN SWITCH [UP] [DN]**  
Changes the operating frequency or memory channel of the transceiver.
- ③ **LOCK SWITCH [LOCK]**  
Prevents accidental key entry of all keys except the PTT switch.
- ④ **ACTIVE INDICATOR**  
Lights when a key is pushed or tone is being transmitted.
- ⑤ **16-KEY KEYBOARD**  
16 different keys are available.
- ⑥ **MEMORY WRITE KEY [MW]**  
Used when writing a DTMF code into a memory channel.
- ⑦ **MEMORY READ KEY [MR]**  
Used when recalling and transmitting a DTMF code in a memory channel.
- ⑧ **RE-DIAL KEY [RD]**  
Used when recalling and transmitting the last DTMF code transmitted.

Thank you for purchasing the **HM-77/A DTMF MICROPHONE**. The microphone is equipped with 14 DTMF code memory channels and a re-dialing function for auto dialling. Up to a 22-digit telephone number can be memorized into each memory channel.

Please read these instructions carefully before installation and operation.

## GENERAL OPERATION

- ① Connect the microphone plug to the mic connector of the transceiver.
- ② Set [LOCK] to the OFF position.
- ③ Push [UP] or [DN] to set the desired operating frequency.
- ④ Push the PTT switch to transmit. Release the switch to return to receive.

## TRANSMITTING A DTMF CODE

There are two ways to transmit a DTMF code: manual and automatic operation.

### ■ MANUAL OPERATION WITH 16-KEY KEYBOARD

- ① Set [LOCK] to the OFF position.
- ② Push a desired key with the 16-key keyboard. The transceiver automatically switches to transmit mode and a DTMF code is transmitted.
  - The active indicator on the microphone lights while a tone is transmitted.

### ■ MANUAL OPERATION WITH THE [RD] KEY

- ① Memorize the desired DTMF code for up to 22 digits to the re-dial memory in advance. See the section WRITING INTO THE RE-DIAL MEMORY.
- ② Push [RD]\* while the PTT switch is pushed.
  - The DTMF code is transmitted.
  - The active indicator blinks according to code length.

\* The re-dial mode is selected and a DTMF code is not transmitted when [RD] is pushed while the PTT switch is not pushed. Push [RD] again to cancel the re-dial mode.

### ■ AUTOMATIC OPERATION WITH MEMORY

- ① Memorize the desired DTMF code into a memory channel in advance. See the section WRITING INTO A MEMORY.
  - ② Push [MR] to select the memory read mode.
    - The active indicator lights.
  - ③ Push the desired memory channel number key\* from [1] to [D] on the keyboard.
    - Memorized DTMF code is transmitted.
    - The active indicator blinks according to code length.
- \* Push and hold [#] to transmit a 1750 Hz tone continuously.  
Push [\*] to transmit a 1750 Hz tone for approx. 0.5 seconds.

- ④ Push [MR] to cancel the function.
  - The active indicator goes off.

### ■ AUTOMATIC OPERATION WITH THE [RD] KEY

- ① Memorize the desired DTMF code for up to 22 digits to the re-dial memory in advance. See the section WRITING INTO THE RE-DIAL MEMORY.
- ② Push [RD] to select the re-dial mode.
  - The active indicator blinks.
- ③ Each push of the PTT switch transmits the DTMF code in the re-dial memory.
- ④ Push [RD] to return to normal use.

## WRITING INTO A MEMORY

### ■ PROGRAMMING

- ① Push [MW] to select the memory writing mode.
  - The active indicator blinks.
- ② While pushing the PTT switch, push the desired memory channel number key from [1] to [D] on the keyboard. Keep pushing the PTT switch.
- ③ While pushing the PTT switch, push the desired keys up to 22 digits.
- ④ Release the PTT switch to memorize the code into the memory channel.
- ⑤ Push [MW] to return to normal use.

### ■ ERASING MEMORY DATA

- ① Push [MW] to select the memory writing mode.
  - The active indicator blinks.
- ② While pushing the PTT switch, push the desired memory channel number key you want to erase.
- ③ Release the PTT switch to erase the data.
- ④ Push [MW] to return to normal use.

## WRITING INTO THE RE-DIAL MEMORY

The re-dial memory channel automatically memorizes the last DTMF code transmitted.

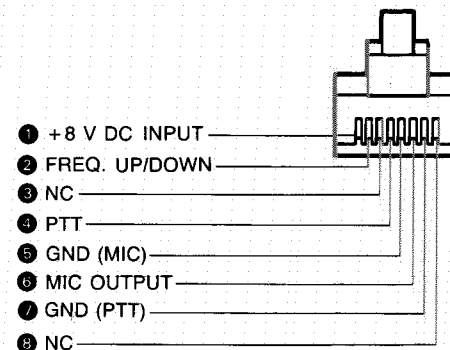
The memory contents can be used for writing a DTMF code into a memory channel. For example, push [RD] instead of the memory channel number key in item ② in the section WRITING INTO A MEMORY as above.

## RESETTING THE CPU

The CPU in the microphone can be reset to clear all memorized information.

- ① Turn the transceiver power OFF.
- ② Push and hold [MW] and [MR] on the microphone, then turn the transceiver power ON again.
- ③ Release [MW] and [MR].

## MIC PIN CONNECTION



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