Introduction

The TMAA02–02 DTMF microphone plugs into the microphone socket on the radio control head, and enables users to make calls to a PABX (Private Automatic Branch Exchange) or PSTN (Public Switched Telephone Network).

To make a call, enter the required number using the DTMF keypad and the DTMF microphone generates DTMF tones as the microphone keys are pressed. Press the PTT key and speak clearly into the microphone then release the PTT key when you have finished speaking.

The microphone button operates a hookswitch, which is closed when the microphone is connected to the microphone clip and open when the microphone is removed from the microphone clip. The function of the hookswitch is determined by the radio programming.
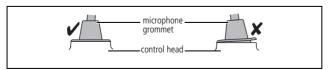
Installing the Microphone

Important: The desktop microphone grommet must be installed whenever the desktop microphone is plugged into the microphone socket. When installed, the grommet has two functions:

■ to prevent damage to the microphone socket when there is movement of the microphone cord, and

■ to ensure that the control head is sealed against water, dust and other environmental hazards.

1. Slide the microphone grommet along the microphone cord and push two adjacent corners of the grommet into the microphone socket cavity.

2. Squeeze the grommet and push the remaining corners into position.

3. Check that the grommet is seated correctly in the cavity.

Correct DTMF microphone grommet seating

Installing the Microphone Clip

Install the microphone clip in the most convenient location for the radio user. It must be within easy reach of the user, but in such a position that the microphone PTT key cannot be inadvertently activated or jammed on.

Connect the microphone clip to the negative supply if hookswitch operation is required.

Adjustment

Remove the DTMF microphone back cover and set the DTMF tone level to approximately 80% deviation (± 4kHz for wide bandwidth radios and ± 2kHz for narrow bandwidth radios).

Radio Programming

Radio input and output lines can be configured in the Programmable I/O form of the TM8000 Programming Application. When a DTMF microphone is installed, the radio must have the CH_GPIO1 pin set to No Action. This is the default setting for this pin.

More Information

Refer to the TM8100 Mobile Radio Service and Accessories Manual (product code MM8100-01-00-812) for more information about this product.