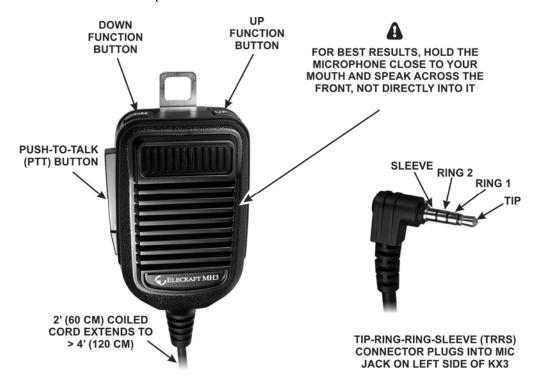
Elecraft® MH3 Microphone

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The MH3 microphone is designed for use with the Elecraft KX3 transceiver. It contains a high-performance condenser microphone element optimized for SSB, AM and FM use, a push-to-talk button and two function buttons to control the KX3 from the microphone.

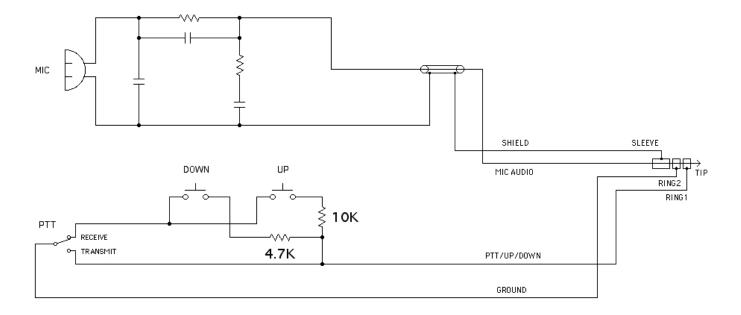


IMPORTANT

Enable the microphone functions and set levels as follows using the KX3's MENU entries. While adjusting the gain (3), compression (5) and equalization (6), hold the microphone and speak as you would in normal use.

- 1. Turn microphone bias ON (MENU:MICBIAS).
- 2. Enable the UP and DN function buttons (MENU:MIC BIN).
- 3. Set the microphone gain level (rotate KEYER/MIC control).
- 4. Set the audio monitor level (hold MON knob in and rotate it).
- 5. Set the audio compression level (tap CMP switch and rotate knob above it).
- 6. Adjust the equalization (*MENU:TX EQ*) for the best voice quality. Typically, a male voice sounds best with 2.4 kHz boosted by 3 to 6 dB and 200 Hz and below rolled off by 3 to 5 dB.
- 7. To use VOX, hold the VOX switch; set up *MENU:VOX GN* (VOX gain) for the required sensitivity. When using a speaker, set up *MEN VOX:INH* (VOX inhibit or anti-VOX) to avoid having speaker audio trigger the mic.
- 8. In addition to using the microphone PTT button or VOX, you can also tap the KX3's XMIT switch to transmit.

Note: A non-zero setting of MON (3, above) is needed to hear your transmitted speech. This is especially useful when setting up speech compression (CMP), since high settings can create more distortion. Avoid setting the monitor level too high, even while wearing headphones, to avoid audio feedback.



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In transmit mode (PTT button depressed) the PTT/UP/Down line is connected directly to ground (Ring 2). In receive mode, the PTT/UP/DOWN line is open unless the DOWN or UP button is pressed. Pressing the DOWN (DN) button pulls the line down through a 4.7k resistor. Pressing the UP button pulls the line down through a 10K resistor.

The unmarked components provide filtering for the microphone circuit.