Elecraft® ProSet – K2/K3 Boom Headset Assembly and Operating Instructions

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INTRODUCTION

The Proset-K2/K3 is the result of collaboration between Elecraft and Heil Microphones to produce a high-performance headset and boom-mounted condenser microphone optimized for the Elecraft K2 and K3 transceivers. The Proset – K2/K3 provides excellent frequency response and gain.

Note: *The ProSet-K2/K3 is supplied ready for VOX operation. If you wish to use Push-to-Talk (PTT, you must supply a suitable normally-open switch and male 1/4" connector. This connector attaches to the AD-1-K microphone plug adapter supplied.*

Parts Supplied

QTY	Description
1	Proset-K2/K3 Boom Headset
1	AD-1-K (red) microphone plug adapter
1	Black Microphone Windscreen
1	5.6K ¼ W Resistor (E500007) ***(For K2 only)***
8	Mic. Configuration Jumper Blocks (E620055) ***(For K2 only)***

SET UP AND OPERATION FOR THE ELECRAFT K3

Important! The following applies ***only*** to an Elecraft K3. See the next page if you have an Elecraft K2.

No internal hardware changes are required to use your ProSet – K2/K3 with the Elecraft K3. Setup consists of connecting the microphone using the adapter provided, plugging in the headphones, setting MENU commands and making other front-panel adjustments.

Note: The jumper blocks and 5.6 k resistor supplied with your microphone are not used. They are required only when using the ProSet – K2/K3 with an Elecraft K2.

☐ The K3 can receive microphone input from either front or back panel connectors. Select the front panel connector as follows:

1. Tap MENU and locate ***MIC SEL*** with VFO B.
2. Select ***FP.L*** or ***FP.H*** with VFO A.
3. If ***FP.H*** is displayed, tap the 1 button to toggle the display to show ***FP.L***.
4. Tap the 2 button as needed to display ***bI AS***. (This turns on the bias voltage required by the ProSet – K2/K3 microphone.)

☐ Plug the 1/8" microphone plug on the ProSet-K2/K3 into the gray jack on the AD-1-K adapter.

☐ If used, plug your PTT switch into the 1/4" jack on the AD-1-k adapter. (The PTT switch is ***optional***.)

☐ Plug the AD-1-K adapter into the K3's MIC connector and the ProSet – K2/K3 headphone plug into the K3's PHONES connector.

☐ Chose a voice mode (AM, FM, USB or LSB) your K3 is equipped to operate. Set the K3 power level to 5 W and make sure an appropriate dummy load or antenna is attached to the K3. Hold VOX to select either PTT or VOX operation.

☐ Press your PTT button or, if using VOX, speak into the microphone. You should observe movement on the K3's power meter. Adjust the K3 front panel MIC (microphone gain) and CMP (compression) controls as needed.

This confirms that your microphone is working. Refer to the K3 Owner's manual for adjusting your K3 for optimum results. See *Basic Operation, Voice Modes, SSB, AM, FM* as well as *Advanced Operating Features.*

In Case of Difficulty

If you have problems getting your ProSet – K2/K3 to operate with your K3, first confirm that you have enabled the external microphone bias (see the first step of the above procedure). If this does not correct the problem, please consult *Troubleshooting* in your K3 Owner's Manual.

Also, please feel free to email us at k3support@elecraft.com with your questions.

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SET UP AND OPERATION FOR THE ELECRAFT K2

Important! The following applies ***only*** to an Elecraft K2. See first page if you have an Elecraft K3

The PROSET-K2/K3 is pre-wired for the Elecraft default microphone configuration. Installation consists of placing the 8 jumper blocks straight across the pins of the K2's microphone configuration block (P1) and adding a 5.6K resistor between pin 6 and pin 1 on the rear of the K2 microphone connector.

☐ Remove the four exterior screws securing the K2 Front Panel assembly to the front of the K2 case and the two interior screws holding the Control Board to the Front Panel board.

☐ Remove the Front Panel assembly by gently pulling it away from the K2 case.

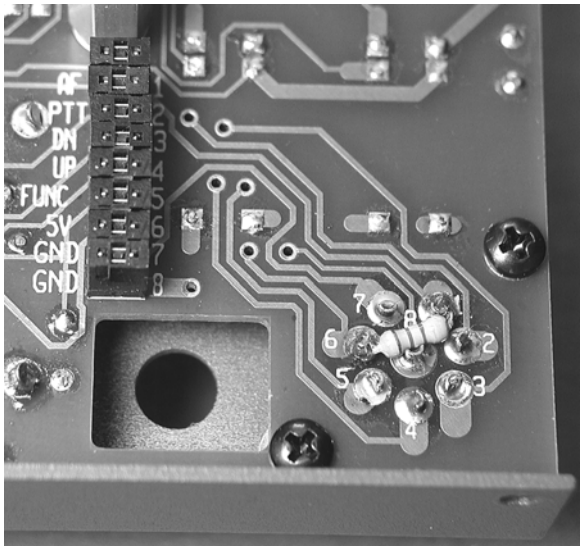

Figure 1. Jumper Blocks and Mic Bias Resistor (K2 ONLY!)

☐ Install the eight supplied jumper blocks on the Microphone Configuration Header (P1), located on the rear of the Front Panel board (see upper left area of Figure 1). Install each jumper so that it connects each adjacent pair of pins. Pin 1 to AF, Pin 2 to PTT, Pin 3 to DN etc. as shown.

☐ Install the supplied 5.6K resistor on the rear of the 8 pin microphone connector between pin 1 and pin 6 (see Figure 1). Solder each end of the resistor and trim the excess lead length.

☐ Plug the Front Panel assembly back into the RF Board. Secure it to the chassis (4 screws) and Control Board (2 screws).

Test and Set Up

☐ Plug the 1/8" microphone plug on the ProSet-K2/K3 into the gray jack on the AD-1-K adapter.

☐ If used, plug your PTT switch into the 1/4" jack on the AD-1-k adapter. (The PTT switch is ***optional***.)

☐ Plug the AD-1-K adapter into the K2's microphone connector (lower left corner of the front panel).

☐ The ProSet – K2/K3 comes with a 1/8" to 1/4" headphone plug adapter installed. Separate the adapter to expose the 1/8" plug and insert that into the headphone jack next to the microphone connector.

☐ Refer to your K2 and KSB2 manuals as needed and set the following:

1. SSBA=1
2. SSBC = 2
3. POWER = 5 watts
4. VOX on or off as desired.
5. Attach a suitable dummy load to the K2 Ant. jack.

☐ Speak into the microphone (if using PTT, press the switch). You should observe movement on the K2's power display.

This confirms the microphone is working. Refer to *Using the SSB Adapter* in the KSB2 manual for more details on SSB set up and operation. You may wish to optimize the K2's transmit audio by adjusting the **BF1t** settings for USB and LSB. See *SSB Transmit BFO Optimization* in the KSB2 manual. Adjusting these settings allows you to shift the K2's transmit frequency response up or down to match your personal voice characteristics and taste.

In Case of Difficulty

If you have problems getting your ProSet – K2/K3 to operate with the K2 first confirm that you have properly installed the eight microphone configuration jumpers and the 5.6K resistor. If you have not previously confirmed the operation of your KSB2 with another microphone, refer to the troubleshooting section of the KSB2 manual.

Also, please feel free to email us at support@elecraft.com .