

RF SPEECH PROCESSOR

INSTRUCTION MANUAL

MODEL KP-760

OUTLINE :

The KP-760 is a Speech Processor to be used with insertion between the transceiver and microphone.

The level of speech wave does not always standardize, high and low levels are in existence, and the average situations are low.

The KP-760 makes increase talk power by controlling this level difference electrically and automatically, and by limiting.

When, therefore, modulate the transceiver by the waveform of which was speech processed by the KP-760, it would be able to use transmitter output power to the best advantage.

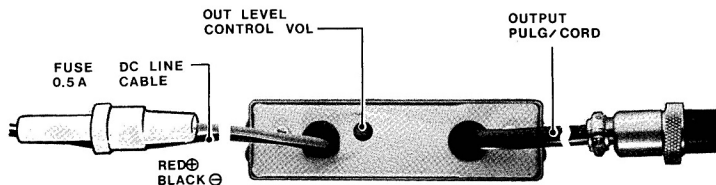
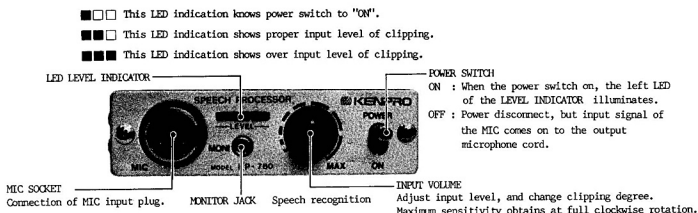
To clip speech voice, the KP-760 adopts the way that once, it clips after changed the speech signals to 60KHz SSB signal, therefore, the harmonic distortion which is occurred by clipping is able to eliminate, and the output waveform of the KP-760 adopts a little distortion and increased talk power.

FEATURES :

Because of increasing talk power, it would be able to use transmitter electric power to the best advantage, and be able to do high distinct and efficient operation.

Regardless of the distance from the microphone in speaking, as the transmitter output level is fixed, it does not feel tired in communications for a long time.

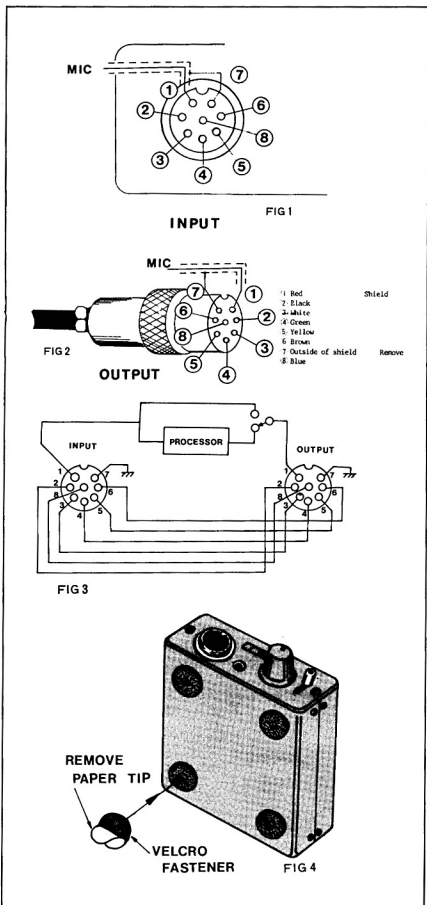
It is able to operate in the midnight without giving trouble to the neighbours, as it would be modulate properly though in a whisper.



INTERCONNECTION :

1. Remove the microphone plug from the transceiver, and connect the plug into the microphone socket which is located front panel of the KP-760.
2. Connect the output plug of the KP-760 into the microphone socket of the transceiver.
3. Connect the DC cable of the KP-760 to each terminal of the DC power supply.

§ IT IS RECOMMENDED TO USE SMALL LIPPLED REGULATED 12 TO 15V DC POWER SUPPLY.



CAUTION :

1. Over output level may occur audio distortion.
2. Be sure microphone connector wiring of the transceiver. As the wirings are different in each transceiver manufacturers and some of them are also different from the KP-760, be change microphone input and output wiring of the KP-760 to meet with your own transceiver.

The microphone wiring of the KP-760 is shown in Fig.-1, 2 and 3.

OPERATION :

1. Turns on the power switch, one GREEN LED will illuminate.
2. Adjust input level by INPUT knob. Proper input level is known by illumination of 2 GREEN LED and one RED LED, and do speech recognition by attached earphone.
3. To know output level, ask to some local stations to check transmitter signal, or if the transceiver has ab ALC meter, it is recommended to utilize it.

INSTALLATION :

To install the KP760, be make sure of attached 4 VELCRO FASTNERS.

Fasten 4 fastners to each leg of the KP-760 as shown in Fig.-4, and remove paper tip and lock to desired position. If want to remove the KP-760, pull up the KP-760, then it is easily removed from the fastner.

SPECIFICATIONS :

Clipping Level	: less than 0.5mV at 1 KHz
Microphone Impedance	: 600 ohms to 50 Kohms
Distortion	: less than 3% (1 KHz at 20dB limiting)
Frequency Response	: 200 - 3000Hz, less than -12dB
Output Level	: more than max. 40mV/rms. at 1 KHz
Power supply	: DC 13.8V 40mA, at no signal
Dimensions	: 90mm(W) x 25mm(H) x 102mm(D)
Weight	: 400 gr.

ACCESSORIES :

Earphone	x 1 pc.
Velcro Fastner	x 4 pcs.