OPERATING INSTRUCTIONS FOR
COMMUNICATIONS SPECIALISTS MODEL R-1000

[BOLD] = Front panel keyboard keys
(BOLD) = Top panel knobs

BASIC START UP

1.   Turn **(PWR/VOL)** knob to the right**.**

2.   Press **[CLEAR].**

3.   Enter frequency (example: 164.4375mhz) press **[1] [6] [4] [.] [4] [3] [7] [5]** on the keypad and press **[ENT]**.   164.4375 will appear in the display window. Rotate **(DIAL)** to fine tune if needed. If you make a mistake press **[CLEAR]** to start over.

4.   The **(GAIN)** knob will serve as your attenuator. Turn it to the right for long range reception and to the left for close tracking.

STORING DATA IN THE MEMORY BANK

Store as many as 999 frequencies in the memory bank. Each memory channel holds one frequency with an alphanumeric comment for convenient identification. The stored data can be recalled quickly and easily.

1.   Turn the receiver on and press **[PROG]**.   PROG-MEMORY will appear at the top of the display window.

2.   The cursor will be on the top line. Press **[▼◄─]** to bring the cursor to (CH) channel selection. Enter the number 001 - 999 where the frequency will be stored and press **[ENT]** or scroll with **(DIAL)** to desired channel.

3.   Press **[▲──►]** to move the cursor to the top line and use the keyboard to enter the frequency to be stored in that channel, then press **[ENT].** The receiver will now be active on that frequency. Once the frequency is entered rotate **(DIAL)** to fine tune if needed.

4.   Press **[▼◄─]** to move cursor to **TXT** line . Rotate **(DIAL)** until the chosen letter or symbol is displayed. A maximum word length of seven characters may be used. Press **[▲─►]** to advance to next character. Press **[ENT]** when finished**.**

5.   If you make a mistake press **[PROG]** to start over**.**

ACCESSING THE MEMORY BANK

1. To access memory bank, press **[MEMO],** channel number and **[ENT]** or scroll
Through the channels by using **[▲━►]** or **[▼◄━]** or **(DIAL).**

2. To exit memory press **[CLEAR].**

SCANNING THE MEMORY BANK

The receiver will pause on each channel for 1 to 30 seconds. The default setting is 5 seconds. See menu programming to change the default setting.

1. Press **[SCAN].**

2. To exit scan press **[MEMO]** or **[CLEAR].**

CHANGING DATA IN THE MEMORY BANK

The data stored in the memory bank can be changed or deleted at any time.

1. Press **[PROG]** if channel shown is not the one you want to change, press **[▼◄]** to bring the cursor to the channel number, enter the channel number you wish to change and **[ENT]** or scroll using **(DIAL)**.

2. Press **[▲━►]** to bring cursor to the frequency, key in new frequency and **[ENT]** or rotate **(DIAL)** to desired frequency**.**

3. If you are *only* changing the frequency press **[ENT]**.

4. Press **[▼◄━]** to bring cursor to **TXT** to change the comment, press **[ENT]** when finished.

5. To delete a channel press **[PROG]** then **[▼◄━].** The cursor is now on the channel line, enter the channel number and **[ENT]** or scroll using **(DIAL)**, press **[CLEAR]** and **[ENT].**

PASS

The pass feature allows you to *skip* or *pass* over selected frequency channels from your memory bank while in the scan mode.

1. You can select a channel to be passed over from the scan or memory mode by pressing **[PASS]** while the selected frequency is shown on the display**.** The frequency is now omitted from the scan list.

2. To add the channels back to your scan list press **[MEMO]**, the channel number and **[ENT]** or use the **[▲━►] [▼◄━]** or **(DIAL)** to scroll through the memory channels. Passed frequencies will display a small "p" in front of the frequency. Press **[PASS]** to cancel the pass feature and the frequency will be returned to your scan list.

MODIFY NUMBER OF CHANNELS

You may notice, while scrolling through the memory bank, a slight delay after the last channel before it returns to the first channel. This is due to the receiver scanning all 999 channels before returning to channel 001. If you only use the receiver to monitor a few frequencies, you may choose to modify the number of channels.

1.　　To limit number of channels to 99 press and hold **[1]** while turning on power,
　　　To limit number of channels to 199 press and hold **[2]** while turningon power**,**
　　　To limit number of channels to 299 press and hold **[3]** etc.

2.　　To return receiver to 999 channels press and hold **[0]** while turning on power**.**

KEYGUARD LOCK

The keyguard lock feature allows you to lock the keypad. While in the keyguard mode the only keys on the keypad that can be used are the **[▲➤]** or **[▼◄–]** keys. The **(DIAL) (GAIN)** and **(PWR/VOL)** knobs operate normally**.**

1.　　To put the receiver in keyguard mode press and hold **[MEMO]** for 5 seconds**.**

2.　　To cancel keyguard press and hold **[MEMO]** for 5 seconds**.**

PROGRAMMING MENU

You can customize your receiver by changing the default settings in the programming menu.

1.　　To access menu press and hold **[ENT]** for 5 seconds**.**

2.　　Move the cursor with **[▲➤]** or **[▼◄]** to select menu option.

3.　　Rotate **(DIAL)** to**:**
   - Change scan dwell time from 1 to 30 seconds in 1 second steps.
   - Change steps to .1khz, .2khz, .5khz, 1.0khz.
   - Select beep tone on or off.

4.　　Press **[ENT]** when finished**.**

LAMP

The **[LAMP]** key will illuminate the display and keypad for use in darkness.

1.　　Press **[LAMP]** to illuminate display and keypad for 5 seconds**.**

2.　　Press and hold **[LAMP]** for 2 seconds to illuminate continuously until **[LAMP]** is pressed again.

CPU RESET

Should the microprocessor "hang up" and need to be reset, this can be done easily and without losing memory.

1.   Press and hold **[CLEAR]** while turning receiver on**.**

2.   Menu programming will return to default settings of 5 second scan,
        1.0 khz steps, and beep on.

EARPHONE JACK

A 3.5mm (1/8") mono earphone jack is mounted on the top panel. When an earphone or headphone is plugged in, the internal speaker in the receiver is disconnected. If stereo headphones are used, only one side will be active.

RECHARGING THE BATTERY

The receiver is supplied with a wall charger and cigarette lighter adapter that plug into the side to recharge the batteries. A fully charged radio will provide approx. 12 hours operation at moderate volume.   The batteries should be charged overnight. Do not keep receiver on charger any longer than two or three days.

USING ALKALINE BATTERIES

If "AA" alkaline batteries are installed in receiver, __DO NOT__ plug either wall or cigarette lighter charger into receiver. Remove at least one alkaline battery if you choose to operate receiver directly off wall or cigarette lighter charger without consuming battery power. If supplied rechargeable batteries are installed, they may be left in while using wall or cigarette lighter charger.

CLOSE-IN DIRECTION FINDING

With the receiver tuned normally to the low side of zero beat and the **(GAIN)** control turned all the way down (CCW), you may find that transmitters closer than 200' are too strong to get any directional information when turning the antenna. Tune the receiver about 1kHz higher than normal to the high side of zero beat and keep the **(GAIN)** control about 1/2 the way up or the 12:00 o'clock position. This will allow you to get good directional information by swinging the antenna within 1' or less of the transmitter.

If this type of operation is anticipated, program CH 1 with the correct frequency and CH 2 approximately 1 kHz higher in frequency. Note in the alpha comment field which frequency is HI or LO. You can also program CH 2 out of scan if desired.

SUPPLIED ACCESSORY
PRICE LIST

RA-1. 4 pc "AA" NiMH Rechargeable Batteries $2.95 ea.

RA-2. Nylon Case with Belt Loop 14.95 ea.

RA-3. Rubber Duck Antenna 14.95 ea.

RA-4. Belt Clip 3.95 ea.

RA-5. Wrist Strap .95 ea.

RA-6. AC Wall Charger 12.95 ea.

RA-7. DC Cigarette Lighter Charger 7.95 ea.

RA-8 Mono Headset Adapter (1/4" female to 3.5mm male) 9.95 ea

R-1000 (complete with above accessories) **695.00 ea.**

Please specify desired 4 MHz wide segment

when ordering.

Factory sweep align front end to a new 4 MHz 25.00
wide segment in the 148 - 174 MHz Band.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference,

and (2) this device must accept any interference

received, including interference that may cause

undesired operation.