Operating Instructions for
QUICK TRACK MODEL - 5000+

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

Basic Start-Up

1. Turn **(PWR/VOL)** knob to the right.
2. Press **[CLEAR]**
3. Enter frequency (i.e. 217.025MHz) press **[2] [1] [7] [.] [0] [2] [5]** on the key pad and press **[ENT]**. 217.0250 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 the **(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 nest character. Press **[ENT]** when finished.
5. If you make a mistake press **[PROG]** to start over.

Accessing the Memory Bank

1. To access the 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 the **[▲←]** to bring cursor to the channel number. Enter the channel number you want 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 the 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 the 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 **[▲←]** or **[▲→]** 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 channels to 199 press and hold **[2]** while turning on the power, to limit channels to 299 press and hold **[3]** etc.
2. To return to 999 channels press and hole **[0]** while turning on power.

Key-guard Lock

The key-guard lock feature allows you to lock the keypad. While in the key-guard mode the only keys that can be used are the **[▲→]** and **[▲←].** (**DIAL)**, **(GAIN)**, and **(PWR/VOL)** knobs will operate normally.

1. To activate key-guard mode, press and hold **[MEMO]** for 5 seconds.
2. To cancel key-guard mode, 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, or 1.0KHz.
   -Select beep tone on or off.
4. Press **[ENT]** when finished.

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, 1.0KHz steps, and beep on.

Lamp

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

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

Earphone Jack

A 3.5mm (1/8") 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 supplies with both wall and cigarette lighter chargers that plug into the side to recharge the batteries. A fully charged radio will provide approximately 12 hours of operation at moderate volume. The batteries should be charged overnight. Do not keep receiver on charger any longer that two or three days.

Using Alkaline Batteries

If "AA" alkaline batteries are installed in receiver, **DO NOT** plug either wall of 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.

Birdies

Birdies are undesired signals generated within the receiver. They mask over weak telemetry signals that would normally be heard. The frequencies below should be avoided if possible.

216.266 to 216.217	(6KHz total)
218.700 to 218.800	(100KHz total)
219.135 to 219.138	(4KHz total)
219.955 to 219.957	(3KHz total)
221.183 to 221.186	(4KHZ total)
221.589 to 221.593	(5 KHz total)

Close-In Direction Finding

Your receiver has the ability to obtain directional information within inches of the transmitter. Because of the RF gain control has such a high range of

attenuation, it is imperative that the gain control be placed fully clockwise when tracking a weak signal or distant signal.

If the gain is left at the point where it was used for close-in directional finding, you may NOT be able to heat the transmitter during your initial attempts to track a new signal.

SPECIAL INSTRUCTIONS FOR FINE TUNING THE QTR -5000+ FOR LONG RANG TRACKING

To receive maximum long range reception on the QTR-5000+ you must fine tune the collars in the field from a fixed position about 2 miles away.

***For Example, you have a collar engraved with the Frequency 217.536.**

1. Turn on both the collar and the QTR-5000+.
2. With the keypad on the QTR-5000+, punch in the frequency 217 .(decimal) 536 and press **[ENT].**
3. You should see 217.5360 appear in the display window.
4. Slowly turn the **(DIAL)** knob left or right until you hear a clean, crisp chirp. MOST OF THE TIME you will turn the **(DIAL)** knob to the left to hear the best chirp.
5. The number 217.5360 will change as you turn the **(DIAL)** knob.
6. Write down the number in the display window that gives you the best sounding chirp. The display window may now read 217.5354 if you turned the **(DIAL)** knob to the left or 217.5364 if you turned the **(DIAL)** knob to the right. The number does not matter. You want the best sounding chirp.
7. Next, drive down the road about two miles from the collar. When you turn the receiver on, the frequency you wrote down in step #6 should re-appear in the display window. If not, then re-enter the number you recorded in step #6.
8. Turn the **(GAIN)** knob all the way to the right. This will give you the most range.
9. Now, fine tune the collar again with the **(DIAL)** knob from this position (2 miles away) until you hear the best chirp. The number you recorded in step #6 may or may not five you the best chirp at 2 miles.
10. Turn the **(GAIN)** knob to the left some if you want to remove some background noise.
11. The number that you now see in the display window, after fine tuning with the **(DIAL)** knob from 2 miles away, will give you the
12. best long range reception. This will be a **SEVEN DIGIT NUMBER**. Write this number down.
13. You can now go to the instructions and program this **SEVEN DIGIT NUMBER** into the memory bank for this collar.

The QTR-5000+ will automatically fine tune itself for each collar once you determine the correct frequency (seven digit number) from your field testing of 2 miles and have entered the seven digit number into the memory bank.