TALK KING

FRS
FAMILY
RADIO
SERVICE

- Antenna
- External Speaker and Microphone Jacks
- LED Indicator
- UP
- DOWN
- FUNC
- POWER
- Microphone
- PTT (Push to Talk)
- Volume Selection
- CTCSS Code Selection / CTCSS Mode
- Channel/Volume/CTCSS Code
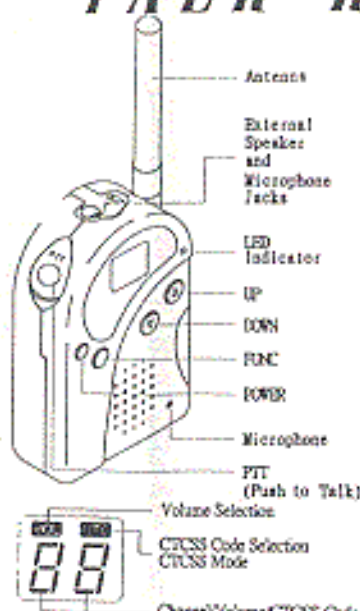
Thank you for purchasing this license-free personal communication TALK KING two-way radio for Family Radio Service (FRS) designated frequencies.

IMPORTANT

- Please read this manual carefully and completely before attempting operation.

WARNING

- Do not operate the radio when driving a vehicle or riding a bicycle.
- Do not operate the radio near unshielded electrical blasting caps or in an explosive atmosphere. An explosion or fire may result.
- Changing or modifying the radio could lose the user's authorization to operate this radio. Never open your radio case.
- Never change or replace anything in your radio except the batteries.

FCC INFORMATION

- Do not open your radio to make any internal adjustment. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations.
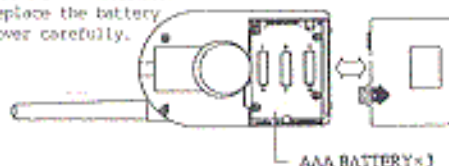
INTRODUCTION

With this TALK KING two-way radio, you can talk with another person who has a similar radio when both radios are tuned to the same channel.

If someone else is using the channel you have selected and you do not want to hear them use the CTCSS (Continuous Tone Coded Squelch System) feature for silent monitoring. Please take a few minutes to read this manual carefully. The information described below will allow you to obtain maximum performance from your radio.

BATTERIES

This radio operates with 3 AAA alkaline batteries.
To Install:
1. Firmly remove the battery cover.
2. Insert 3 AAA batteries.
3. Replace the battery cover carefully.

AAA BATTERY×3

Low Battery Alert: When the batteries are low, the display on the radio will flash for indication, and transmitting will be disabled. Replace the batteries to avoid interrupted use.

Note: 1. Please removes the batteries if they are discharged or before storing your radio for extended periods. Batteries corrode over time, and if left in the radio may cause permanent.

2. The use of high capacity batteries is recommended for maximum operating life between battery changes.

OPERATION

• To Turn The Radio On
1. Press the POWER button for 1 second. The radio will beep and the operating channel number will appear to indicate the radio is on.
2. To turn the radio off, press the POWER button for 1 second. The radio will beep to confirm.

• To Select An Operating Channel
Turn the radio on, then press the UP/DOWN button to select the desired channel.

• To Adjust The Receive Volume
1. Press the FUNC button one or more times until "VOL" appears and flashes.
2. Press the UP/DOWN button to select the desired volume.

• To Select A CTCSS Code
1. Press the FUNC button one or more times until "CTS" appears and flashes.
2. Press the UP/DOWN button to select the desired CTCSS tone ("oF" means the CTCSS feature is disabled).

• To Receive
When an incoming signal is received, the LED indicator will go green.

• Monitor
This feature is used to check activity on the current channel before transmitting. You can also adjust the volume by pressing the UP/DOWN button when monitoring. Press the FUNC button for 1 second, and the monitor feature will be activated until the FUNC button is released.

• To Transmit
1. Do not transmit if someone is talking on the operating channel.
2. Press the PTT (Push-To-Talk) button and the LED indicator will go red.
3. Hold the radio a few inches from your mouth, and speak in a normal voice into the microphone.
4. Release the PTT button to receive again.
Note: When the batteries are low, transmitting could be disabled. If you press the PTT key, the LCD will be dark and a beep sound will be generated for indication. Please replace the batteries to avoid interrupted use.

• Time-out Timer
This feature helps extend battery life. The radio will beep a warning tone and stop transmitting if

the PTT button is pressed for 30 seconds (default) or 3 minutes continuously. The "oF" also appears to indicate the time-out Timer is activated. You can change the time-out timer from 30 seconds (default) to 3 minutes as follows.
1. Turn the radio off.
2. Turn the radio on by pressing the FUNC and PTT button simultaneously. The time-out timer will switch between 30 seconds and 3 minutes.

• Communication Range
It is recommended that you do not use the radios closer than 5 feet apart because of heavy interference. Communication range depends on the environment and will be adversely affected by concrete structures, indoor or in vehicle operation.

• Channel Scan
1. Turn the radio off.
2. Turn the radio on by pressing the DOWN button simultaneously with the POWER button and "SC" will appear. The LCD backlight will flash and the channel scan feature will start. You can change the scan direction by pressing the UP/DOWN button.
3. The scan function will stop if there is a signal present on a channel, and will resume about 3 seconds after signal drop out.
4. Press the FUNC button or turn the radio off to exit channel scan.
Note: 1. During scanning, the CTCSS feature is disabled.
2. Transmitting is allowed during scanning. When the PTT is released, the radio will wait for an answer for 5 seconds before starting to scan again.

• CTCSS Code Scan
This feature helps you to detect and set the correct CTCSS code for a received signal. By monitoring a received signal, you can determine its correct CTCSS code used on the air.
1. Turn the radio off.
2. Turn the radio on by pressing the UP button simultaneously with the POWER button and "SC" will appear. The LCD backlight will flash and "CTC" will appear to indicate the CTCSS code scan.
3. Scan activates only when a signal is received and stops when the correct CTCSS code is decoded, which will then be selected automatically.
4. Press FUNC or PTT button or turn the radio off to exit the CTCSS code scan mode.

• Backlight Control
Normally, the LCD backlight will turn on when any button except the PTT is pressed and turn off again after 5 seconds except when the radio is scanning. The backlight can be permanently illuminated by the following procedure.
1. Turn the radio off.
2. Turn the radio on by pressing the FUNC button simultaneously with the POWER button. "On" will appear for indication. To return to the normal backlight feature, repeat the same procedure described above and "oF" will appear for indication.

• Beep
You can mute the beep sound by the following procedures.
1. Turn the radio off.
2. Turn the radio on by pressing the UP and DOWN buttons simultaneously with the POWER button. "oF" will appear for indication.
To activate the beep again, repeat the procedures described above and "On" will appear for indication.

• Key Lock
The key lock feature prevents accidental channel changes and accidental function activation. Only the PTT and the POWER buttons will be available.
1. Turn the radio off.

2. Turn the radio on by pressing the FUNC and DOWN buttons simultaneously with the POWER button, the "On" will appear for indication.
3. Repeat 1 and 2 to exit the key lock mode.

• System Reset
Initial state of the radio from the factory is Channel 1/CTCSS disabled/Volume 8. You can reset the radio to the initial state by the following procedures.
1. Turn the radio off.
2. Turn the radio on by pressing the FUNC, DOWN and the PTT buttons simultaneously with the POWER button to return to the initial state.

• Automatic Power Off
This feature turns the power off automatically if you forget to turn your radio off. If, after 30 minutes of receive inactivity and no button has been pressed, the radio will turn the power off automatically.

• External Speaker And Microphone Jacks
Connect an optional speaker-microphone or headset if needed. When an external speaker-microphone or headset is connected the internal microphone and speaker will be disconnected.
Note: It is recommended that only an ADI brand speaker/microphone be used with this equipment. Some types of speaker microphone units have a common ground connection, and the use of this type of unit may cause damage to your Talk King transceiver.

TROUBLESHOOTING

Symptom	Solutions
Display is dark	Reposition or replace batteries
No transmitter output	1. Be sure the PTT button is pressed completely when transmitting. 2. Reposition or replace batteries.
The loudspeaker is muted when the green LED is illuminated	1. Check the volume level. 2. Check your CTCSS code or disable the CTCSS feature. 3. Reposition or replace batteries.
FUNC/UP/DOWN buttons do not function	1. Turn the radio off. 2. Turn the radio on by pressing the FUNC and DOWN buttons.
No beep	1. Turn the radio off. 2. Turn the radio on by pressing the UP and DOWN buttons simultaneously with the POWER button to activate the beep.
Radio will not work with an external speaker-microphone	Confirm that the ground connection between the speaker and microphone are separate.

SPECIFICATIONS

Frequency Range	462.550-467.7250Hz
Channels	14
CTCSS Code	1-38 (Encode/Decode/Scan)
Communication Range	up to 2.5Mi
Power Source	3 AAA Batteries

APPENDIX

Channel Frequency Table

Channel	MHz	Channel	MHz
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

CTCSS Code Frequency Table

Code	Frequency (Hz)	Code	Frequency (Hz)	Code	Frequency (Hz)
1	67.0	14	107.2	27	167.9
2	71.9	15	110.9	28	173.6
3	74.4	16	114.8	29	179.9
4	77.0	17	118.8	30	186.2
5	79.7	18	123.0	31	192.8
6	82.5	19	127.3	32	203.5
7	85.4	20	131.8	33	210.7
8	88.5	21	136.5	34	218.1
9	91.5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151.4	37	241.8
12	100.0	25	156.7	38	250.3
13	103.5	26	162.2		

ADI Communications

ONE YEAR LIMITED WARRANTY

* ADI Communications Corp. warrants this product against defects in material and workmanship.
* In the unlikely event of any failure due to a defect in material or workmanship, occurring within one year of purchase, this product will be repaired or replaced at our discretion at no charge.
* The defective product should be returned in its original packing and with proof of the date of the original retail purchase to your dealer for warranty service.
* The warranty does not cover accident, misuse, fire, flood and other Act of God, unauthorized repair or altered serial number.
* Some statutory regulations do not allow for the exclusion or limitation of incidental or consequential damages, nor allow limitations on how long an implied warranty lasts, therefore the above limitations may not apply to you.

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FCC ID: MKDTALKKING
EXHIBIT #: __8__