User manual

Advanced wireless Communication

THANK YOU!

Thank you for your purchase of Advanced Wireless Communications'

CMB100 two-way radio. This portable two-way radio is a business grade device. Treat it with care, and you will enjoy years of reliable operation.

MODEL(S) COVERED IN THIS MANUAL

CMB100 Two-way

Radio Frequency:

Model: CMB100

Part Number: *****(radio & battery cover only)

AWR4000 Six-Unit Gang Charger

Model: AWGC4000

Part Number: *****

IC Warning :

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage,

(2) l'utilisateur de l'appareil doit accept tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that, the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.



Our Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications radio generators RF electromagnetic energy during transmit mode. This radio is designed for and classified as"Occupational Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize Such hazards.

This radio is NOT intended for use by the "General Population" in an uncontrolled environment. This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only". In addition, our Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications radio complies with the following standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

---IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.

----American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

----American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the measurement of Potentially Hazardous Electromagnetic Fields-RF and Microwave.



CAUTION The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to as-sure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

Occupational/Controlled Use The radio transmitter is used in situations in which persons are exposed as consequence of their employmentprovided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Attention:

This radio complies with IEEE and ICNIRP exposure limits for general population/uncontrolled RF exposure environment at operating duty factors of up to 50% and is authorized by the FCC for occupational use only. An appropriate warning label is affixed to all units. In order to comply with RF exposure requirements, a minimum distance of 2.5 cm must be maintained when held-to-face, and body-worn operations are restricted to the approved original accessories (belt clip), a minimum distance of 2.5 cm. Do not use this device when antenna shows obvious damages.

This product is compliance to FCC RF Exposure requirements and refers to FCC website https:// apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm search for FCC ID: Q9SCMB307 to gain further information includes SAR Values.

INFORMATION TO THE DIGITAL DEVICE USER REQUIRED BY THE FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can generate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

SAFETY INFORMATION:

Your wireless portable two-way radio has been designed using a low power transmitter. When the PTT switch is pressed, the radio generates radio frequency (RF) electromagnetic energy (EME). This radio is designed to comply with the FCC Report and Order FCC 96-326 (August, 1996).

User Safety Information

PLEASE READ THIS IMPORTANT INFORMATION BEFORE USING YOUR ADVANCED WIRELESS COMMUNICATIONS PORTABLE TWO-WAY RADIO.

◊ Only qualified technicians are allowed to maintain this product.

◊ To avoid electromagnetic interference, turn off your radio in places where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy. When traveling on aircraft, turn off your radio when the airline crew instructs you to do so.

When in vehicles equipped with an air bag, do not place a portable radio in the airbag deployment area.

♦ Turn off your radio prior to entering any area with a potentially explosive atmosphere. Do not remove, install, or charge batteries in such areas.

◊ To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps.

O not expose the radio to direct sunlight for long periods of time. Do not place the radio in direct contact with any heating source.

CONTENTS

Thank You!1		
FCCD Declaration	2	
Contents	5	
Getting Acquainted	6	
Product Inspection	6	
Radio View	7	
LCD Display Symbols	10	
Safety and Care Instructions	12	
Safety Precautions	12	
Caring for This Product	12	
Caution	12	

Getting Started	13
Installing / Removing / Charging the Battery	13
Turn the Unit ON / OFF	14
Volume	14
Talk to Another Radio	14
Keypad Lock	15
VOX Level / Voice Delay Time	15
Scan for a Channel / CTCSS / DCS	16
Wireless Cloning	17
Troubleshooting	17

GETTING ACQUAINTED

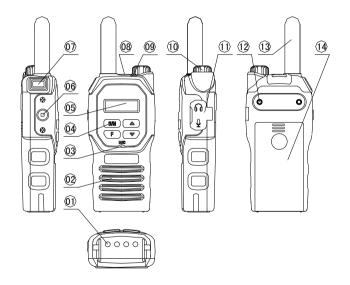
PRODUCT INPSECTION

Thank you for your purchase of Advanced Wireless Communications CMB307 Portable Two-way Radio. Before use, please inspect the product as follows. First check the shipping carton for any signs of damage. If any damage has occurred, please contact your dealer or Advanced Wireless Communications immediately. Confirm the supplied product against the packing slip to assure accuracy.

PACKAGING CONTENTS:

	Part number	Item	Qty.
1		Radio	1
2		Battery	1
3		Single Charger	1
4		Charger adapter	1
5		Manual	1

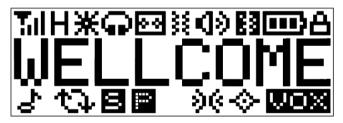
RAIDO VIEW



- 1. Charger Terminal
- 2. Speaker
- 3. Microphone
- 4. Programmable function key
- 5. LCD
- 6. SF2 (programmable)
- 7. PTT/SF1(programmable)
- 8. LED Flashlight
- 9. LED Indicator
- 10. Power switch/ Volume Knob

- 11. Head set Jack
- 12. Belt clip screw
- 13. Antennal
- 14. Battery cover

MINI 3 LCD DISPLAY SYMBOLS



SYMBOL	FUNCTION
WELLCOME	Channel number/Channel alias/Channel frequency
Tal	RSSI
Н	High Power: the current channel is high power (H/M/L)
*	LED flashlight function enable
କ	Headset function enable/ headset connected
X	Headset function disable
00	Recorder function enable/ Flashing when no space
X	Vibration function enable
49	Speaker opened
۹X –	Speaker function disable
*	Bluetooth function enable

63	Bluetooth earpiece connected
	Battery indicator
A	Keypad lock
5	DTMF signalling enable
1 0	Scan
8	The current channel is in scan list
P	The current channel is prior channel
<u> </u>	Compander enable
♦	Scrambler enable
VOX	VOX enable

SAFETY AND CARE INSTRUCTION

SAFETY PRECAUTIONS

Please observe the following safety precautions when setting up and using this product.

• LCD panel - The LCD panel is made of glass, and may break if the unit is dropped or impacted.

• Heat sources - Keep the product away from heat sources such as radiators, stoves, heaters, and other heat-generating products.

• Water and moisture - Do not use the product in or near water or in high moisture areas such as a bathroom. Indoor use only.

CARING FOR THIS PRODUCT

To ensure you receive the maximum benefit from using this product, please observe the following guidelines.

• Cleaning - Use a damp cloth. Do not use liquid cleaning agents, benzene, thinner, or aerosols.

• Repair - Do not attempt to repair the product or modify the circuitry by yourself. Only replacement parts that are recommended by Advanced Wireless Communications (AWC) should be used. You can contact AWC at 1-800-4755852.

• Do not scratch hard objects against the LCD display as this may cause damage.

CAUTION

• To avoid risk of fire or injury, do not attempt to charge non-rechargeable batteries. Please turn off the unit while charging.

• Replace only batteries with the same or equivalent type recommended by the

manufacturer.

• Please dispose of old, defective batteries in an environmentally friendly manner in accordance with the relevant laws and regulations.

• Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

• Do not expose equipment and accessories to open flames, such as lighted candles, etc.

• To reduce the risk of electric shock, do not expose equipment to rain or moisture.

GETTING STARTED

INSTALLING THE SWIVEL BELT HOLSTER

1. Slide the bottom of the radio into the holster until it snaps into place.

2. To remove, push the tab on the holster and pull the radio away from the holster.

Note: In case of loss, please contact your point-of-sale or call 1-800-475-5852 to request replacement part number ******.



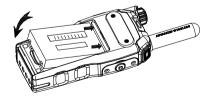
INSTALLING THE BATTERY

Your radio uses a rechargeable Lithium Ion (Li Ion) battery

1. If the battery door is already in place, push down on the three bars on the door and slide it off the radio.

2. Insert the battery, printed arrows first, into the battery compartment and press down to secure firmly in place.

3. Slide and snap the battery door into place.



Charging the Battery

Use only the charger supplied with the radio, or other Series power accessories. For optimum battery life, do not charge the battery for prolonged periods after it is fully charged. Charging the battery over the weekend is acceptable.

Using the Drop-in Charger

- 1. Place the charger on a flat surface.
- 2. Insert the plug of the power cord into the jack on the charger.
- 3. Plug the cord into an AC outlet.

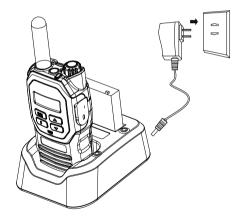
4. Turn the radio off. If the radio is on while charging, it will take longer to fully charge.

5. Insert the radio (with battery installed) into the front charging pocket.

Note: The radio will fit in the charger with the holster on.

The drop-in charger will also sequentially charge a spare SNN5571 Li lon battery.

The spare battery will not begin to charge until the radio battery is fully charged. Both batteries will charge in approximately 2–6 hours.



WARNING: There is a danger in which incorrectly placing the battery can cause an explosion. Always make sure the radio is switched off before installing or changing the battery. Replace only with the same or equivalent type. Use ONLY with Lithium 3.7V 830 mAH rechargeable batteries. **Contact Advanced Wireless Communications at 1-800-475-5852 or www.advancedwireless.com for more information.**

Using the 56531 Multi-Unit Charger

The Multi-Unit Charger (MUC) allows drop-in charging of up to 6 radios or batteries.

Batteries can be charged inside the radios or removed and placed in the MUC Separately. Each of the 6 charging pockets can hold a radio or battery, but not both.

- 1. Place the charger on a flat surface.
- 2. Insert the power cord plug into the jack on the MUC.

- 3. Plug the cord into an AC outlet.
- 4. Turn the radio off.
- 5. Insert the radio or battery into the charging pocket.

Charging Status LEDs

On the drop-in charger, the radio and battery charging pockets have their own LEDs.

On the MUC, each of the 6 charging pockets has an LED. The LEDs are grouped into pairs to show which charging pockets are paired (for cloning, see page 32).

The LED is solid red when the battery is charging, and solid green when charging is complete.

IMPORTANT: Charge the battery for 12 hours on the first charge. After that, it should take 4 or less hours to charge.

NOTE:

• To completely disconnect from power, the adapter should be disconnected from the 6 Unit Gang Charger.

- Batteries should not be exposed to excessive heat such as direct sunlight or fire.
- The 6 Unit Gang Charger and adapter should not be exposed to wet conditions. No objects filled with liquid, such as vases, should be placed on the main unit and adapter.
- To maintain the battery life of your two-way transceiver it is recommended that you only charge the battery when needed. Overcharging the battery will reduce performance.
- For best results ensure that the unit is turned off before charging.
- Remove batteries before storing your radio for extended periods. Batteries corrode over time and may cause permanent damage to your radio.

TURN THE UNIT ON/OFF

Turn IIII clockwise to turn the radio on, and counterclockwise to turn the radio

off.

When you turn the radio on, the radio will chirps and the display briefly shows all features and display segments.

ADJUSTING THE VOLUME

Turn I clockwise to increase the volume, and counterclockwise to decrease the volume.

Note: Do not hold the radio too close to your ear when adjusting the volume.

TALKING AND RECEIVING

For best transmission speak about 2" away from the radio and leave a short pause before speaking once you have pressed the PTT button.

To talk to another radio (transceiver):

- 1. Press and hold "S/M" to check if the channel is free.
- 2. Press and hold PTT button and speak into the microphone to transmit.
- 3. Release the PTT button once you have finished speaking to allow other radios to respond. The radio transceiver will automatically hear received transmissions.

NOTE: You can only communicate with another radio (transceiver) that is on the same channel and using the same CTCSS/DCS code as your radio (transceiver).

Signal Strength and Channel Busy Indicators

When there is activity on a frequency, the radio displays **Tull** and the green

light flashes.

When there is activity on the same frequency and code as your radio (your radio is receiving), the radio displays **Tull** and a signal strength from 1 (weakest) to 4 (strongest). This can help determine when a radio is moving out of range.

Note: Obstacles that block the signal path may affect the strength of the incoming signal.

KEYPAD LOCK

To avoid accidentally changing the channel and the unit's preferred settings, you can lock the keypad.

To lock or unlock the keypad:

Press and hold F button for 2.0 seconds. \blacksquare appears when the keypad is locked.

NOTE: While key lock is "on" you can still use the PTT button .

SELECT A CHANNEL

The transmitter and receiver must be on the same channel using the same CTCSS code or DCS code in order for you to communicate with another party.

To select between maximum 16 channels (the CTCSS code or DCS code is set by PC program):

1. Press (to increase channel number. To activate auto scan for available channels,

press and hold for more than 2.0 seconds.

2. Press to decrease channel number.

VOX LEVEL / VOICE DELAY TIME

The Voice Activated Transmission (VOX) function allows your voice to activate transmission automatically when the transceiver is used with an optional hands-free microphone / headset. If the unit is set to VOX level 1, 2,9, it will automatically detect and transmit your voice through to the selected channel. The VOX level and transmission delay time should be adjusted according to your voice loudness and personal preference.

To set up a headset:

- 1. To switch the radio off.
- 2. Plug in the headset.
- 3. To switch the radio back on again.



NOTE: This product is only compatible with AWC headsets, please ask your local

Account Manager for further information. Pressing the PTT button disables VOX.

WIRELESS CLONING

The CMB307 is capable of Wireless Cloning. For details on this function, contact Advanced Wireless Communications at 800-475-5852

TROUBLESHOOTING

See below for some common problems and their remedies. DO NOT attempt any repairs

yourself. This will invalidate your warranty.

PROBLEM	POSSIBLE CAUSES / REMEDIES	
Can't turn the radio on	Check that the battery is correctly	
	installed and has been fully charged.	
Can't communicate with other radios	For this and all other issues contact	
	Advanced Wireless Communications at	
	1-800-475-5852 or visit	
	www.advancedwireless.com for more	
	information.	
VOX function is not working	Check the headset is correctly plugged	
	in and is compatible with the radio	



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