



360 Herndon Parkway
Suite 1400
Herndon, VA 20170
<http://www.rheintech.com>

APPENDIX C: MANUAL

Operation

Cobra microTALK™ FRS 105 2-Way Radio

Features of This Product

- Two-way radio-free radio with up to a 2 mile range
- 14 channels
- Holster belt clip
- Roger beep confirmation tone
- Backlit LCD
- Microphone/Speaker jacks

Product Information

Replacement or substitution of transmitters, receivers, or other parts of a unique nature, with parts other than those specified by Cobra Electronics Corporation, may void the technical requirements of part 95 of the FCC. This device complies with the technical requirements of Part 2 of the FCC.

This device complies with Part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

Installing Batteries

- 1 Pull lock tab down to remove battery cover.
- 2 Insert four "AAA" batteries.
- 3 Position batteries according to polarity markings.

Auto Battery Save

Your FRS 105 has a unique circuit designed to save battery life. If there are no transmissions within 10 seconds, the unit will automatically switch to battery save mode and **PEW SAWEE** will be shown in the display.

Tuning On Your microTALK

- 1 Push and hold the **POWER** button for 2 seconds. An audible tone will indicate the unit is on.

Select Channel

- 1 Turn on the microTALK 2-Way Radio.
- 2 Select any of the 14 channels by pushing the **CHANNEL** button up or down.

Talking To Another Party

- 1 Push and hold the **TALK** button.
- 2 The TX indicator will be displayed.
- 3 Hold the microphone about 2 inches from your mouth. Speak in a normal voice.
- 4 Release the **TALK** button and listen for a response.

Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the **TALK** button.

This alerts the other party that you are finished talking and it's OK for them to begin talking.

Calling Another Party

- 1 Push and release the **CALL** button. The unit you are calling will hear a two second ringing tone.

Listening For Another Party

When finished talking

- 1 Release the **TALK** button to receive incoming transmissions. Your display will always in listening mode when the **TALK** button is not pressed.
- 2 Adjust volume by pushing the **DOWN/UP** buttons.

Illuminating the Display

- 1 Push and release the **LIGHT/MAX RANGE** button to illuminate display for 10 seconds.

Auto Squelch

Your microTALK is equipped with Auto Squelch, which automatically shuts off weak transmissions and unwanted noise due to terrain conditions or if you have reached your range limit.

Maximum Range Extender

When the signal you want to hear is consistently weak, you may place the radio in Maximum Range mode without having to manually find a stronger signal. Press the **MAX RANGE** button for 5 seconds. To return to normal operation, momentarily press the Maximum Range Extender button again or change channels.

External Microphone/Speaker Jack

Your microTALK 2-Way Radio can be fitted with an external microphone/speaker (not included). Freeing your hands for other tasks.

- 1 Open the Mic/Spar tab on top of unit.
- 2 Insert plug into the Mic/Spar jack.

FCC Certification Report
2001229

Cobra Electronics Corporation

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FCC ID: BBOFRS11B



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Accessory Order Form

Accessories

Limited One Year Warranty

Item #	Description	Cost Ea.	Qty.	Amount
FA-HR1	Replacement Holster	\$4.95		
MA-VOX	Vox Headset Mic	\$49.95		
MA-EBM	Ear Bud Mic with PTT	\$29.95		
MA-SM	Lapel Speaker/ Microphone	\$24.95		
FA-BP	Battery	\$19.95		
FA-CR	Charger	\$19.95		
Subtotal				
(Tax if applicable)				
Shipping/handling				
Total				

For credit card orders, fill out order form and fax to: 1.773.622.2269 or call: 1.773.889.3087 (Press 1 from the main menu) 8:00 am - 6:00 pm, M-F, CST. Make check or money order (no stamps) payable to: Cobra Electronics Attn: Accessories Dept. 6500 W. Cortland St. Chicago, IL 60707	
Please print clearly	
Name: _____	
Address (No P.O. Box): _____	
City: _____ State: _____ Zip: _____	
Telephone (____) _____	
Circle One: ☐ Visa ☐ MasterCard ☐ Discover	
Credit Card No. _____ Exp. Date _____	
Customer Signature _____	

COBRA ELECTRONICS CORPORATION warrants that its COBRA FRS Radios, and the component parts thereof, will be free of defects in workmanship and materials for period of one (1) year from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

COBRA will, without charge, repair or replace, at its option, defective FRS radios, products or component parts upon delivery to the COBRA factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product to the factory. For the balance of the warranty, COBRA's expense, if the product is repaired or replaced under warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Exclusions: This limited warranty does not apply: 1) to any product damaged by accident; 2) in the event of misuse or abuse of the product; 3) if the product has been altered or tampered with; 4) if the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. COBRA shall not be liable for any incidental, consequential or other damages including, without limitation, damages resulting from loss of use or cost of installation.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow limitation of incidental or consequential damages, so the above limitations may not apply to you.

COBRA ELECTRONICS CORPORATION
6500 West Cortland Street
Chicago, Illinois 60707

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Order by phone
Call 1.773.889.3087 (Press 1 from the main menu) 8 a.m.-6 p.m. M-F, CST.)

Order by mail or fax
Please fill out order form and fax to: 1.773.622.2269 or mail to: 1.773.889.3087, Cobra.

Order over the Web
www.cobraelec.com

microTALK Range
Your microTALK Radio has a range of up to 2 miles. This effective range can be shortened under some conditions.

- Under flat, open conditions you will experience the microTALK's maximum range.
- Range can be reduced by buildings, and foliage in the path of the signal.
- Range will be further reduced by dense foliage and hilly terrain.

microTALK 2-Way Radio Can Make Life Easier and Safer
As you become familiar with your microTALK Radio you will find many of your own uses for the unit. Some suggestions include:

- Talking with fellow hikers.
- Keeping track of your family and friends in a shopping centre.
- Talking to a neighbor or a friend.
- Checking on travelling companions in another car.
- Agreeing on a meeting spot after an event.

Caring for Your microTALK Radio
The microTALK 2-Way Radio will give you years of service if cared for properly.

Here are some suggestions:

- Handle unit gently.
- Keep away from dust.
- Never place the unit in water or in a damp place.
- Avoid exposure to extreme temperatures.

Holster/Belt Clip/Desk Stand (Included With Your Radio)
Your microTALK Radio comes with a custom moulded plastic holster.

- Desk Stand
- Belt Clip

You Can Find These Fine Accessories At Your Local Dealer
If you wish, you can order directly from Cobra.

	Vox Headset Mic VOX Voice Command Headset with microphone and push-to-talk switch. \$49.95
	Ear Bud Mic Compact earbud microphone with push-to-talk switch. \$29.95
	Lapel Speaker/ Microphone Removable microphone speaker with push-to-talk switch. \$24.95
	2 Port Desktop Charger Charges two microTALK radios. \$19.95
	MA-SM Lapel Speaker/ Microphone Removable microphone speaker with push-to-talk switch. \$24.95
	FA-BP Battery 12V NiMH battery. \$19.95
	FA-CR Charger 2 Port Desktop Charger. \$19.95

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NOTICES TO THE USER

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.

One or more of the following statements may be applicable:

FCC WARNING

This equipment generates or uses radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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 a residential installation.

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 to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer for technical assistance.

SAFETY INFORMATION:

Your wireless hand-held portable transceiver has been designed using a low power transmitter.

When the **PTT** switch is pressed, the transceiver

generates radio frequency (RF) electromagnetic energy (EME).

This transceiver is designed to comply with the FCC Report and order FCC 96-326 (August, 1996).

CAUTION:

To stay within the standards of the FCC's RF exposure guidelines, hold the Transceiver and antenna at least 2 inches (5 cm) from your face and speaker in your normal voice. Keep the antenna pointed up and away from your face.

If you wear the transceiver on your body, ensure that the antenna is at least 1 inch (2.5 cm) from your body while you are transmitting.

Use only FRS105 genuine accessories and the supplied antenna. Unauthorized antennas, modifications, or attachments may damage the transceiver and violate FCC regulations.