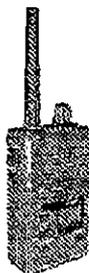


6/11

COBY GRS-20

Family Radio Service



OWNER'S MANUAL

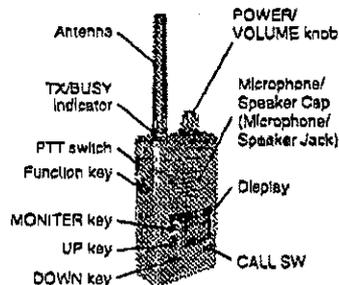
Warning: Adjustment to this unit or replacement of any transmitter component (crystal, semiconductor, etc.) to this unit that could result in a violation of the rules.

NOTE: 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 radiate 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 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 needed.
- Consult the dealer or an experienced radio/TV technician for help.

1. Parts and Name



Microphone / Speaker Cap
Make sure the cap is place when the terminals are not in use. Never expose an open terminal to moisture.

Microphone / Speaker Jack
External microphone/speaker jack. To connect an optional Microphone / speaker. When using this pack, the Internal speaker is disabled.

POWER/VOLUME knob
Turn this knob clockwise to turn the transceiver on, also turn this Knab clockwise to increase the volume level. Turn this knob counterclockwise to decrease the volume level, also turn this knob counterclockwise fully to turn the transceiver off.

TX /BUSY Indicator
Lights red during transmission. Lights green during reception or when the squelch is off.

PTT(Push-To-Talk)switch
When pressed, switches the transceiver from receive to transmit. Hold down the **FUNCTION** key and press this key to lock the keys.

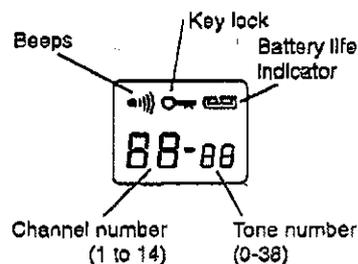
FUNCTION key
Used in combination with other keys to select other functions.

MONITER key
Press this key to open the squelch.

UP/DOWN key
Press the UP key to increase the channel number. Press the DOWN key to decrease the channel number. Hold down the **FUNCTION** key and press the UP key to increase the tone number. Hold down the **FUNCTION** key and press the DOWN key to decrease the tone number.

CALL key
When pressed, switches the transceiver from receive to transmit with beep sound.

2. Display indications



3. Attaching/ Removing the Belt clip

1. To attach, slide the belt clip to wards the arrow mark.
2. To remove, pull the belt clip lock and slide the belt clip.

4. Installing the Battery

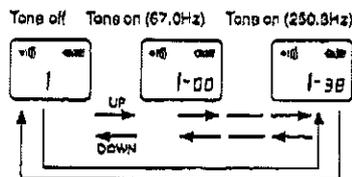
1. Removing the belt clip if it is attached.
2. Pull the latch on the battery lid and Detach the battery lid.
3. Confirm the location and polarity of the batteries. Install fore AAA-size alkaline batteries.
4. Attach the battery case cover.

Battery life Indicator.

- Approx. 50% charged or more
- less than approx. 50%
- needs to be charged or replace with new batteries.

5. Operating with Tone mode

1. Hold down the **FUNCTION** key and press UP or DOWN key to select the desired tone number. (The tone number can be selected from 00 through 38. The one number is changed quickly by holding down the **FUNCTION** key and the UP or DOWN key).

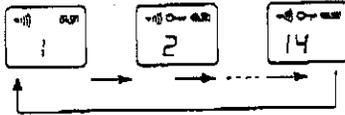


2. Hold down the PTT switch and speak slowly and clearly into the microphone.
3. Release the PTT switch to receive.

6. Scanning

The scan changes the channel and receives. The scan is halted when a signal is received. The scan resumes if a signal is not being received.

1. Hold down the UP or DOWN key for 2 seconds or more.
2. Confirm the scan starts.



3. To stop the scan, hold down the PTT switch, or press the CALL switch, or hold down the UP or DOWN key for 2 seconds or more.
4. To pause the scan, press the MONITOR key.

7. Resetting All settings (All Reset)

All Reset changes the transceiver to its original factory settings.

1. Turn the power off.
2. Hold down the UP and DOWN keys, and turn the power on.
3. Confirm the original settings are displayed. Release the keys.

The original factory settings are as follows:

Channel:	01
Tone:	Off
Beeps:	On
Key lock:	Off
Scan:	Off

8. Turning the Beep off

This transceiver emits beeps. The beeps can be turned off using the following procedure.

1. Turn the power off.
2. Hold down the MONITOR key and turn the power on.
3. Confirm the beep symbol beep mark disappears.

9. Using the key Lock Function

This function locks the UP and DOWN keys to prevent accidental change.

1. Hold down the FUNCTION key and press the MONITOR key.
2. Confirm the key lock symbol is displayed.
3. To cancel, hold down the FUNCTION key and press the MONITOR key.

10. Turning the Squelch off (Monitor)

When the transceiver is not receiving a signal, noise is emitted. The squelch is used to channel this noise. The squelch must be on to cancel the noise.

1. Press the MONITOR key to turn the squelch off continuously.
2. Press the MONITOR key to turn the squelch on.

11. Auto Power Off (APO)

The transceiver can be shut off automatically if the unit is not being used in the receive, transmit or key entry mode for 3 hour. This function is used to prevent unwanted battery consumption. This function is always enable.

12. Battery Save

This function is used to extend the life of the battery. The battery save function actually turns the transceiver off for a set period of time and then turns the transceiver on to check for a signal. This function is always enable.

13. Lighting the Display Lamp

The lamp can be lit for 5 seconds. Press the FUNCTION key or UP key or DOWN key to light for 5 seconds.

14. Specifications General

Frequency range	.....	482.5625 - 457.7125MHz
Number of channels	.....	14
Rated Voltage	.....	DC8.0V
Applicable battery	.....	AAA-size alkaline battery
Current Consumption (transmit)	.....	Approx. 400mA
Current Consumption (in waiting)	.....	Approx. 30mA
Current Consumption (at Battery Save 1sec)	.....	Approx. 9mA
Dimensions of Main Body (Not including projection)	.....	55(W)x68 (H)x 27(D)mm
Weight (Including Battery and antenna)	.....	Approx. 165g
FCC Type Approval Number	.....

Industry Canada Type Approval Number

Receiver

Audio Output Approx. 300mW (80, 10% distortion)

Transmitter

RF output power Nominal 500mW

15. Packing List

Transceiver	.....	1
Belt Clip	.....	1
Owner's Manual	.....	1

COBY®

90 DAY LIMITED WARRANTY

COBY ELECTRONICS CORP. ("COBY") warrants this product to the original purchaser to be free from defects in material or workmanship under normal use for 90 DAYS from date of original purchase. COBY agrees at our option under this warranty, to repair or replace it with a new or reconditioned product at no additional charge. Our warranty, of course, does not cover any product that has been repaired or modified by an unauthorized service agent.

To obtain factory service, return this unit (freight-prepaid to the address shown below within the duration of this warranty. Enclose \$6.00 for each item in the form of money order made payable to COBY ELECTRONICS CORP. to cover the cost of postage and handling. Also include a copy of the sales receipt to show the proof of purchase and a detailed description of the problem. The unit(s) must be packaged in such a way as to reasonably protect it from possible shipping damage. For further information write to:

COBY ELECTRONICS CORP.

**Customer Service Dept.
56-65 Rust Street
Maspeth, N.Y. 11378**

COBY's liability under any legal theory for any loss damage in any way related to this product shall in no event exceed the sale price of this product. In no event shall COBY be liable for any incidental or consequential damage resulting from the use of, or inability to use this product. Repair or replacement as provided under this warranty is the exclusive remedy of the consumer.

Except to extent prohibited by law, no express or implied warranty of merchantability or fitness for a particular purpose on this product shall not extent beyond the period of this warranty. Some states prohibit the exclusion or limitation of incidental or consequential damage, so that the above limitations or exclusion may not apply to you. This warranty gives you specific rights, and you may also have other rights which may vary from state to state.