



Cobra Electronics Corporation
6500 West Cortland Street
Chicago, IL 60707

If You Think You Need Service

For technical assistance, please call our Automated Help Desk which can assist you by answering the most frequently asked questions about Cobra products.
(773) 889-3087
24 hours a day, 7 days a week.
A Consumer Service Representative can be reached through this same number 8:00 am - 8:00 pm, Monday through Friday, CST.
Technical assistance is also available on-line in the Frequently Asked Questions (FAQ) section at www.cobraelec.com or by e-mail to productinfo@cobraelec.com

If you think you need service call 1.773.889.3087

"If your product should require factory service please call Cobra first before sending your unit in. This will ensure the fastest turn-around time on your repair"

You may be asked to send your unit to the Cobra factory. It will be necessary to furnish the following in order to have the product serviced and returned.

1. For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon or a sales receipt. If you send the original receipt it cannot be returned.
2. Send the entire product.
3. Enclose a description of what is happening with the unit. Include a typed or clearly print name and address of where the unit is to be returned.
4. Pack unit securely to prevent damage in transit. If possible, use the original packing material.
5. Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or First Class Mail: to avoid loss in transit to: Cobra Factory Service, Cobra Electronics Corporation, 6500 W. Cortland St., Chicago, IL 60707.
6. If the unit is in warranty, upon receipt of your unit it will either be repaired or exchanged depending on the model. Please allow approximately 3 to 4 weeks before contacting us for status. If the unit is out of warranty a letter will automatically be sent informing you of the repair charge or replacement charge. If you have any questions, please call 1.773.889.3087 for assistance.

Cobra Electronics Corp. © 1998
Printed in Thailand

Part No. 480-269-P-001



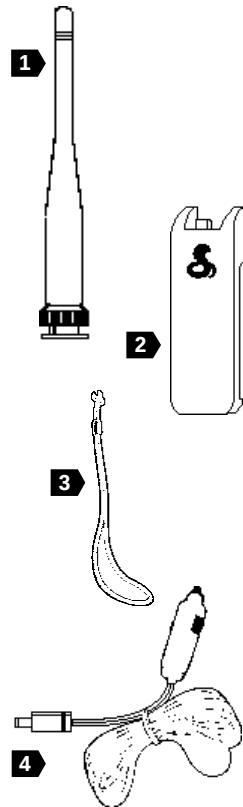
HH 34

Operating Instructions for your Cobra HH 34

Citizens Band 2-Way Handheld CB Radio



"Ingenious Products for Easier Communication."



The CB Story

The Citizens Band lies between the shortwave broadcast and 10-meter Amateur radio bands and was established by law in 1949. The Class D two-way communications service was opened in 1959.

FCC Regulations

FCC regulations permit only "transmissions" (one party to another) rather than "broadcasts" (to a wide audience). Advertising is not allowed on CB Channels because it is considered "broadcasting."

FCC Warnings

Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra, may cause a violation of the technical regulations of Part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules.

Citizens Band (CB) Radio operators are not required to obtain an FCC license to operate their CB equipment or provide station identification.

Nevertheless, an operator of a CB radio station is still required to comply with the communications act and with the rules of CB Radio Operation.

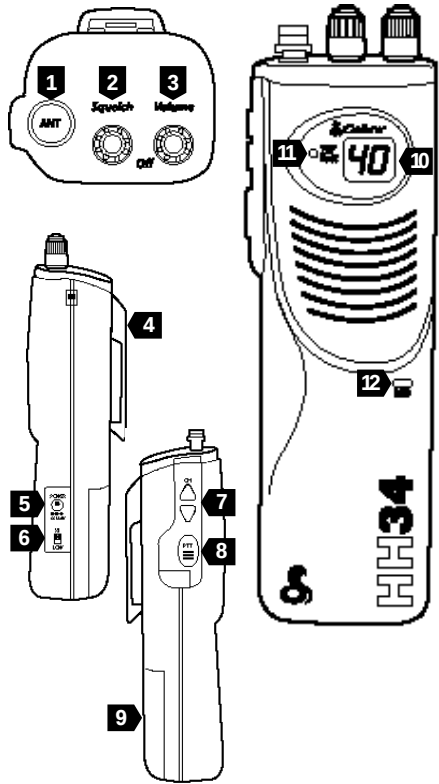
What's Included with Your HH 34

1. High Efficiency Antenna
2. Removable Belt Clip
3. Wrist Strap
4. 12 Volt Cigarette Lighter Plug

A1

Controls and Indicators

- 1. BNC Antenna Connector
- 2. Squelch Control
- 3. On/Off Volume Control
- 4. Removable Belt Clip
- 5. 12 Volt DC Power Jack
- 6. Power Saver (HI/LOW) Switch
- 7. Channel Up/Down Key
- 8. PTT (Push To Talk) Key
- 9. Battery Chamber
- 10. LED Channel Display
- 11. TX(transmit)/ Batt (low battery) LED
- 12. Microphone



Our Thanks to You

Thank you for purchasing the Cobra HH 34 handheld CB. Properly used, this Cobra product will give you many years of reliable service.

Customer Support

Should you encounter any problems with the product or not understand its many features, please refer to this owner's manual. If, after referring to the manual, you still need help, call Cobra Customer Service at 773.889.3087.

Cobra Customer Service

Live operators are available
M-F 8:00 am - 8:00 pm CST at:
773.889.3087

Automated Technical Assistance
available 24 hours a day, seven
days a week.E-mail questions to:
productinfo@cobraelec.com

Cobra on the World Wide Web:
Frequently Asked Questions (FAQ)
can be found on-line at:
www.cobraelec.com

A2

A3

How to Use Your Cobra ^{HH} 34

Contents

Features	1
The CB Story	A1
FCC Regulations	
FCC Warnings	
Included Accessories	
Controls & Indicators	A2
Our Thanks to You	A3
Customer Support	
Operating Your HH 34	
Antenna.....	2
Belt Clip.....	3
Battery Installation.....	3
Turning on Your CB.....	4
Setting Squelch.....	4
Selecting a Channel.....	6
LED Display	7
Transmit/Receive	8
In Vehicle Use.....	10
Power Saver-HI/LOW	10
How Your CB Can Serve You	11
A Few Rules You Should Know	11
Channel 9 Emergency Messages.....	12
CB 10 Codes.....	14
Frequency Ranges	16
HH 34 Specifications	17
Warranty Information	18
Optional Accessories	19
Order Form	20
If You Think You Need Service	Back Cover

Features ofThis Product

- 40 CB Channels
- Full 4 Watt RF Power
- Power Saver (HI/LOW)
- LED Channel Display
- High Efficiency Flexible Antenna
- BNC Antenna Connector
- TX Transmit Indicator
- Omni Directional Microphone

Operation

Operation

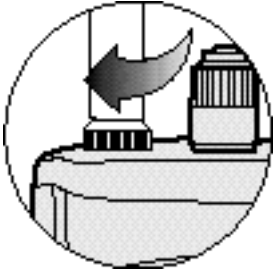
Attach Antenna

Attach Antenna

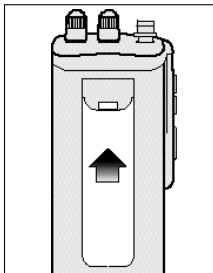
1 Insert.



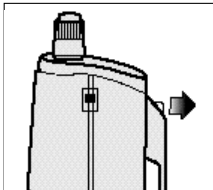
2 Turn clockwise.



Attach Belt Clip

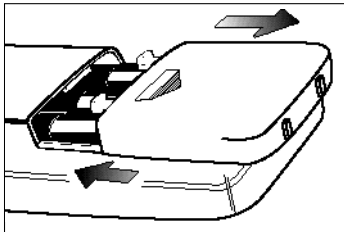


1 Slide belt clip up on rails of base until tab locks.



2 To remove belt clip, lift tab out and slide belt clip down.

Install Batteries



- 1 Remove battery chamber cover.
- 2 Install batteries by polarity markings.
- 3 Replace cover.

Battery Installation

Note

Ignoring polarity markings can cause damage to both the unit and the batteries.

The HH 34 requires 9AA" alkaline or NiCad batteries (not included with the unit).

When batteries are low or need charging the TX/Batt LED will remain on. Replace alkaline batteries or recharge NiCad batteries.

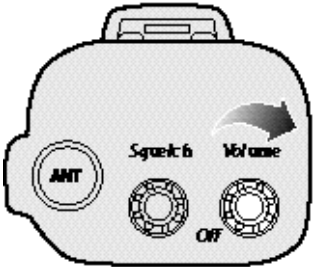
2

3

Operation

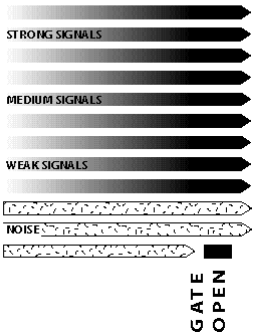
Turning On

Turning On
Rotate ON - OFF Volume Control  clockwise.



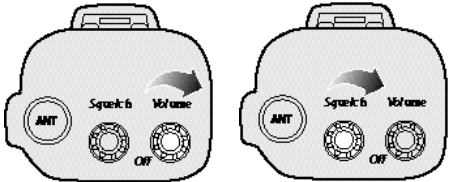
3 Fully  counter-clockwise opens the "gate" and all signals enter.

Gate open

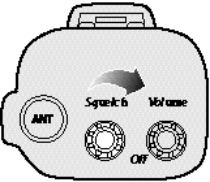


Setting Squelch

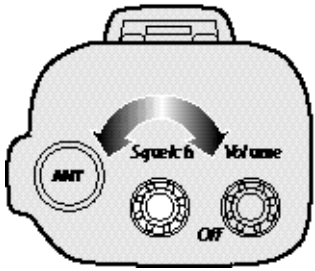
Setting Squelch
Squelch is the "control gate" for incoming signals.



1 Turn volume up louder than normal.

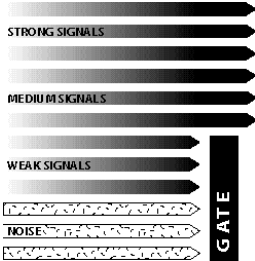


2 Fully  clockwise closes the "gate", allowing no incoming signals.



4 To achieve the Desired Squelch Setting (DSS), turn the Squelch control  counter-clockwise until you hear noise. Now turn the control clockwise just until the noise stops. This is the DSS setting and only strong signals will enter.

Gate set to Desired Squelch Setting (DSS)



Operation

Operation

Select Channel

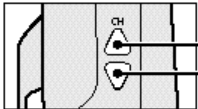
Select Channel

1 Turn power ON.

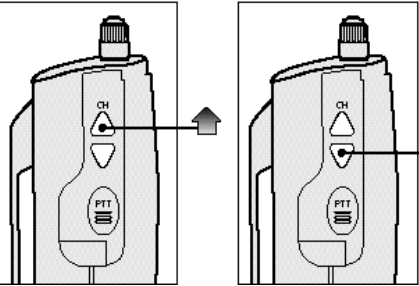
2 For higher channel, push  UP arrow key.

3 For lower Channel, push  DOWN arrow key.

Note
For quick advance, push and hold arrow key(s).

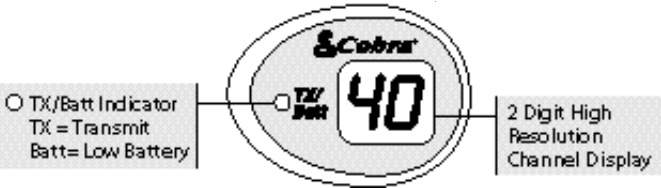


Note
When switching from one channel to another, squelch will need to be reset. See Setting Squelch on page 4.



LED Display

All needed information is displayed.



LED Display

Note

TX/Batt Indicator

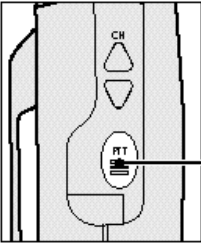
This LED will illuminate red when batteries are low and need recharging / replacement or when the PTT button is pushed and held (which means your unit is transmitting).

Operation

Operation

Transmit/Receive

Transmit / Receive

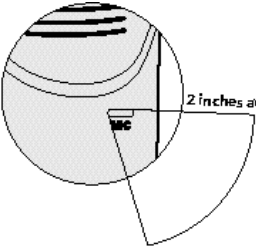


PUSH &
HOLD

1 To transmit, push and hold PTT button.

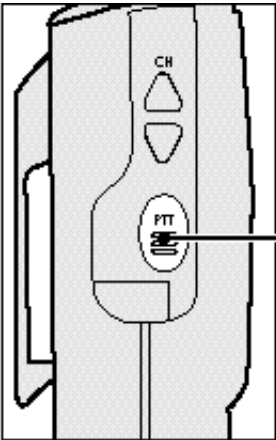


2 TX/BATT (transmit) indicator will illuminate red.



3 Hold mic about 2 inches from mouth. Speak in a normal voice.

8



RELEASE

4 Release PTT button to receive incoming transmissions.

Note

Your HH 34 is always ready to receive incoming signals when the PTT button is released.

9

Operation

How Your CB Can Serve You

In Vehicle Use

Note
Due to the characteristics of CB transmissions, it is necessary to use an external car roof antenna (item #ATW 400) and a BNC adapter (item #CA 43) to receive optimal performance while in your vehicle. See Accessories section on page 19.

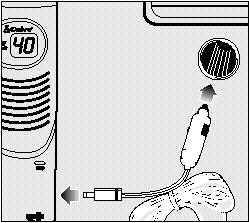
Note
DC/Power Cord is provided.

Power Saver-HI/LOW

Note
TX/BATT indicator will illuminate red when the batteries need recharging or replacement.

Note
Battery life is increased up to 50% while in Battery Save LOW Mode. This reduces power output to 1 watt.

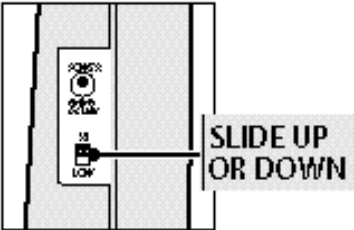
In Vehicle Use



The HH 34 can be connected to your cigarette lighter with the provided car cord. **This power connection does NOT charge the batteries.**

Power Saver-HI/LOW

Reduces the power to 1 watt. This does not decrease the unit's ability to receive but does reduce the transmitting range.



1 To utilize Power Save slide switch to LOW. This mode will extend the unit's battery life.

- Warn of traffic problems
- Provide weather and road data
- Provide help in event of an emergency
- Provide direct contact with home or office
- Assist police by reporting erratic drivers
- Get "local information" to find destination
- Communicate with family and friends
- Suggest spots to eat and sleep
- Keep you alert while traveling

A Few Rules You Should Know

- A. Conversations cannot last more than 5 minutes with another station. A one minute break is required to let others use the channel.
- B. You cannot blast others off the air by use of illegally amplified transmitters or illegally high antennas.
- C. You cannot use CB to promote illegal activities.
- D. Profanity is not allowed.
- E. You may not transmit music with a CB.
- F. Selling of merchandise and/or services is prohibited.

A Few Rules You Should Know

Auto Battery Save

Note
Auto Battery Save will not effect the receiving range of the HH 34.

Battery life is approximately 20 hours under normal use conditions.

How Your CB Can Serve You

Channel 9 Emergency Messages

Note
*If no response on channel 9,
try channels 19 or 14.*

- 1. Set to channel 9 for emergencies**
Be sure antenna is properly connected.
- 2. CB Distress Data**
When transmitting an emergency, you should request a "REACT BASE" and provide the CB distress data (called **CLIP**):

C all Sign	<i>Identify yourself.</i>
L ocation	<i>Be exact.</i>
I njuries	<i>Number. Type. Trapped?</i>
P roblem	Give details and help needed
- Transmit **CLIP** repeatedly so any monitor can assist.

The FCC gives these examples of permitted and prohibited messages for channel 9. These are only guidelines and not all-inclusive:

Permitted	Example Message
Yes	"Tornado sighted six miles north of town."
No	"Post number 10. No tornado sighted."
Yes	"Out of gas on I-95 at mile marker 211."
No	"Out of gas in my driveway."
Yes	"Four car accident on I-94 at Exit 11. Send police and ambulance."
No	"Traffic moving smoothly on I-94. "
Yes	"Weather Bureau has issued thunderstorm warning. Bring sailboat into port."
No	"Attention motorists. Weather Bureau advises snow tomorrow will accumulate 4 to 6 inches."
Yes	"Fire in building at 539 Main, Evanston."
No	"Halloween patrol number 3. All quiet."

How Your CB Can Serve You

CB 10-Codes

CB 10-Codes

Citizen Bands have adopted the “*10-CODES*” for standard questions and answers. These codes provide quick and easy communication,especially in noisy areas. Following are some of the more common codes and meanings:

Code	Meaning
10-1	Receiving poorly
10-2	Receiving well
10-3	Stop transmitting
10-4	OK,message received
10-5	Relay message
10-6	Busy,stand by
10-7	Out of service, leaving
10-8	In service, subject to call
10-9	Repeat message
10-10	Transmission completed standing by
10-11	Talking too rapidly
10-12	Visitors present
10-13	Advise weather/roads
10-16	Make pick up at
10-17	Urgent business
10-18	Anything for us?
10-19	Return to base
10-20	My location is
10-21	Call by phone
10-22	Report in person to
10-23	Stand by
10-24	Completed last assignment
10-25	Can you contact
10-26	Disregard last info
10-27	Moving to channel
10-28	Identify your station

How Your CB Can Serve You

Code	Meaning
10-29	Time is up for contact
10-30	Does not conform to FCC rules
10-33	Emergency traffic
10-34	Trouble at this station
10-35	Confidential information
10-36	Correct time is
10-37	Wrecker needed at
10-38	Ambulance needed
10-39	Message delivered
10-41	Turn to channel
10-42	Traffic accident at
10-43	Traffic tie up at
10-44	Have a message for
10-45	All units within range please report
10-50	Break channel
10-60	What is next message number?
10-62	Unable to copy. Use phone
10-63	Net directed to
10-64	Net clear
10-65	Awaiting your next message/assignment
10-67	All units comply
10-70	Fire at
10-71	Proceed, transmission in sequence
10-77	Negative contact
10-81	Reserve hotel room for
10-82	Reserve room for
10-85	My address is
10-91	Talk closer to mic
10-93	Check my frequency on this channel
10-94	Give me a long count
10-99	Mission completed, all units secure
10-200	Police needed at

Frequency Ranges

HH34 Specifications

The COBRA HH34 transceiver represents one of the most advanced AM two-way radios used as a Class D station in the Citizens Radio Service. This unit features advanced Phase Lock Loop (PLL) circuitry providing complete coverage of all 40 CB channels.

CB Channel	Channel Freq. In MHz	CB Channel	Channel Freq. In MHz
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

GENERAL
CHANNELS..... CB - 40 CH
FREQUENCY RANGE..... CB - 26.965 TO 27.405 MHZ
FREQUENCY TOLERANCE..... 0.005 %
FREQUENCY CONTROL..... PLL (PHASE LOCK LOOP) SYNTHESIZER
OPERATING TEMPERATURE RANGE..... -30° C TO + 50° C
MICROPHONE..... ELECTRET, PUSH-TO-TALK
INPUT VOLTAGE..... 13.0V DC,INTERNAL BATTERIES,13 OUT 13.8 VDC,EXTERNAL
ANTENNA CONNECTOR..... TYPE BNC

TRANSMITTER
POWER OUTPUT..... 3.5 W AT 12 VDC - HIGH,0.8 W IN LOW 4.0 W AT 13.8 VDC - HIGH,1.0 IN LOW
MODULATION..... AM
FREQUENCY RESPONSE..... 300 - 3000 HZ AT -6 DB
OUTPUT IMPEDANCE..... 50 OHMS,UNBALANCED

RECEIVER
CB
SENSITIVITY..... LESS THAN 1 uV FOR 10 DB S/N
IF FREQUENCY..... DUAL CONVERSION 1 ST - 10.690 MHZ,2ND - 455 KHZ
AUDIO OUTPUT..... 500 mW MAXIMUM AT 10 % DISTORTION
FREQUENCY RESPONSE..... 300 - 3000 HZ AT -6 DB
2ND IF IMAGE REJECTION..... GREATER THAN 60 DB
ADJACENT CH.REJECTION..... 50 DB MIN.
AUTOMATIC NOISE LIMITER..... BUILT- IN
FREQUENCY CONTROL..... PLL (PHASE LOCK LOOP)

Limited Two Year Warranty



Cobra Electronics Corporation
6500 West Cortland Street
Chicago, Illinois 60707

COBRA ELECTRONICS CORPORATION warrants that its COBRA CB Radios, and the component parts thereof, will be free of defects in workmanship and materials for period of two (2) years 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 CB 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 for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

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 or as a result of unauthorized alterations or repairs; 3) if the serial number has been altered, defaced or removed; 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 the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

Optional Accessories



Long Range Antenna
Doubles the range of your HH 34.
CA-41 \$25.95



Magnetic Mount Weather Antenna
Allows greater transmission range while in a moving vehicle.
ATW-400 \$29.95



BNC/SO239 Antenna Adapter
Allows connection of the HH 34 to standard antennas.
CA-43 \$5.95



Replacement Belt Clip
HA-BC \$4.95

You Can Find These Fine Accessories At Your Local Cobra CB Dealer

If you wish, you can order directly from Cobra.

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

Order by mail or fax
Please fill out order form on next page, and mail/fax directly to Cobra.

Accessory Order Form

Item #	Description	Cost Ea.	Qty.	Amount
CA-41	Long Range Antenna	\$25.95		
ATW-400	Magnetic Mount Weather Antenna	\$29.95		
CA-43	BNC/SO239 Antenna Adapter	\$5.95		
HA-BC	Replacement Belt Clip	\$4.95		

Prices subject to change without notice.	Subtotal	
	(Tax if applicable)	
	Shipping/handling	\$4.00
	Total	

Tax Table
Illinois residents add 7%
Cook Co. residents add .75% (7.75% total)
Chicago residents add 1% (8.75% total)

Indiana residents add 5%
Michigan residents add 4 %
Minnesota residents add 6%
Ohio residents add 6%
Wisconsin residents add 5%

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 - 8:00 pm,M-F, CST.

Make check or money order (no stamps) payable to: Cobra Accessories Dept. 6500 West Cortland St. Chicago, IL 60707

Please print clearly

Name _____

Address (No P.O.Box) _____

City _____ State _____

Zip _____

Telephone (____) _____

Credit Card No. _____ Exp. Date _____

Customer Signature _____

Circle One: Visa MasterCard Discover

Allow 4 to 6 weeks for delivery. Offer valid in Continental U.S.only.