



COBRA ELECTRONICS CORPORATION
6500 W. Cortland Street
Chicago, Illinois 60707

Operating instructions
for your


Cobra[®]
45WX

**Citizens Band
2-way
Handheld
CB Radio**



"Ingenious Products for
Easier Communication."

How to use your



MODEL
HH 45WX

**CITIZENS BAND
2-WAY HANDHELD RADIO
Babe Winkelman Edition**

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INTRODUCTION

The Cobra 45WX is truly the ultimate handheld CB transceiver — No other handheld CB radio gives you so many state-of the-art features in such convenient, compact design. The 45WX is designed to give you consistent, outstanding performance in virtually all conditions and situations. To insure you get the most from the Cobra 45WX, please read this operating guide carefully before using the unit.

FEATURES

- 40 CB Radio Channels
- 10 Weather Channels
- Snap-On Battery System
- Full Featured LCD Display Panel
- Instant Channel 9 & 19
- Dual Watch Channel Monitor
- Full Channel Scan
- Key Lock
- Eight Memory Locations
- Memory Scan
- High \ Low Power Switch
- Flexible Antenna
- Battery Saver Circuitry
- Speaker Microphone Jack
- BNC Antenna Connector

TECHNICAL SUPPORT

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.

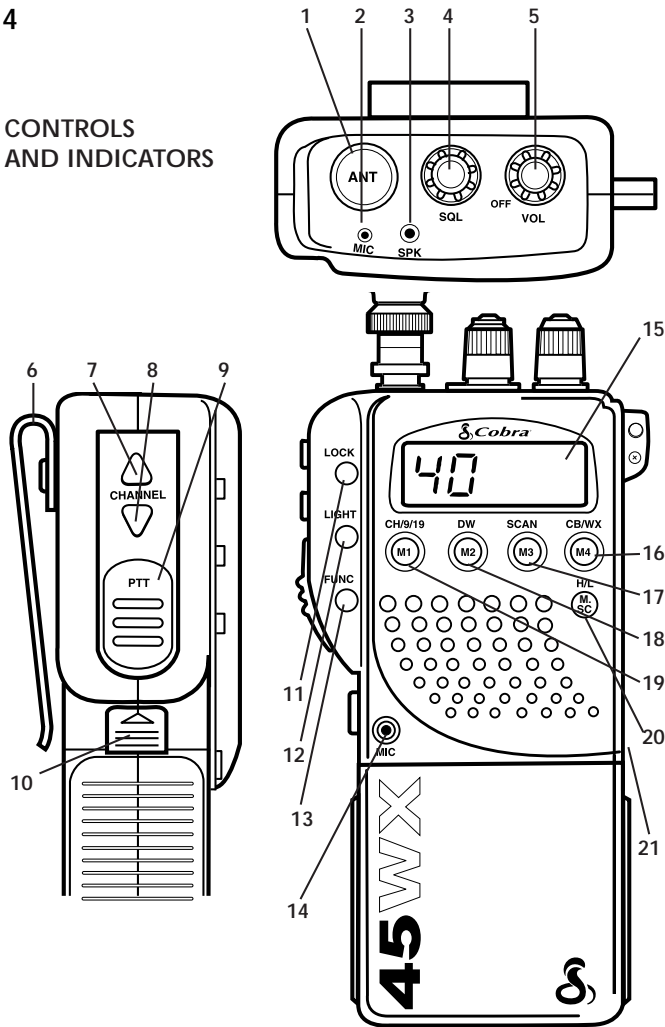
A Consumer Service Representative can be reached through this same number 8:00 am - 8:00 pm, Monday through Friday, CST.

Technical assistance is also available on-line in the Frequently Asked Question (FAQ) section at www.cobraelec.com or by e-mail to productinfo@cobraelec.com

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CONTROLS AND INDICATORS



1. BNC Antenna Connector
2. Microphone Jack
3. Speaker Jack
4. Squelch Control
5. On/Off Volume Control
6. Belt Clip
7. Channel Up Key
8. Channel Down Key
9. PTT (Push To Talk) Key
10. Battery Cartridge Slide Release
11. Lock Key
12. Light Key
13. Function Key
14. Microphone
15. LCD Display Panel
16. CB & Weather Channel / Memory Location (4) Key
17. Channel Scan / Memory Location (3) Key
18. Dual Watch / Memory Location (2) Key
19. Instant Channel 9 & 19 / Memory Location (1) Key
20. High & Low Power / Memory Scan Key
21. Power Jack

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. (CB also includes a Class A citizens band and Class C remote control frequencies.)

FCC regulations permit only "transmissions" (one party to another) rather than "broadcasts" (to a wide audience). Thus, advertising is not allowed on CB Channels because that is "broadcasting."

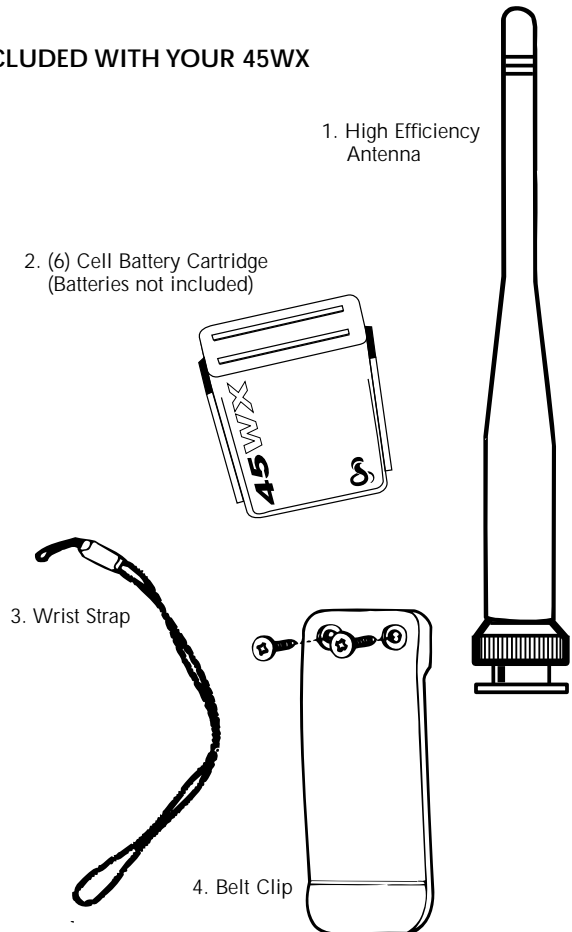
FCC WARNINGS

Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra, may cause 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 no longer 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.

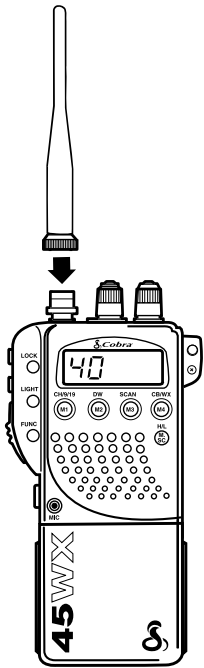
INCLUDED WITH YOUR 45WX



8 GETTING STARTED

ANTENNA

Attach antenna securely by turning clockwise.

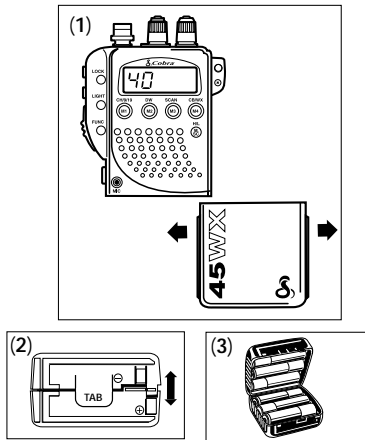


**See Accessories on page 23 for rechargeable battery pack option.

BATTERY PACK

Insert (6) new "AA" Alkaline batteries (not provided) into the battery cartridge. To install batteries, (1) remove the battery cartridge from the unit. (2) Lift the tab on top of the battery pack and separate the two halves. (3) Install the batteries according to the polarity markings provided on the cartridge. Note: Incorrect battery installation can damage the batteries and cartridge. Slide on Battery pack until secure.

Alkaline batteries:
Top grade Alkaline batteries should be used.



Nickel Cadmium (NiCad) Batteries:
Batteries with 700 mAh minimum recommended. Top Grade NiCad batteries can be ordered direct from Cobra. See page 23 for details.

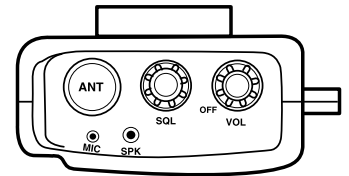
OPERATION TURNING ON/SQUELCH

9

TURNING YOUR HANDHELD CB ON

Rotate the power ON-OFF Volume Control clockwise.

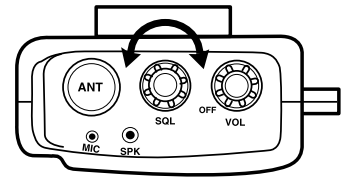
Open the squelch by fully turning counterclockwise and adjust the volume to a comfortable level.



SETTING THE SQUELCH

Think of your squelch control as a gate for incoming signals. If you turn the squelch control fully clockwise, you effectively close the "gate" and no signals will pass through. If you turn the squelch control fully counterclockwise, you open the gate and all signals come through.

To achieve the **Desired Squelch Setting (DSS)**, turn the squelch control counterclockwise until you just hear noise. Then turn the squelch control back clockwise just until the noise stops. This **DSS** setting only lets strong signals through.



OPERATION

SELECT CHANNEL/DISPLAY/TRANSMIT

10

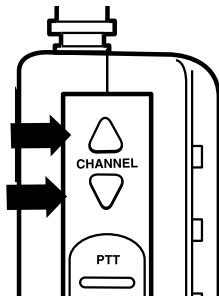
SELECTING A CHANNEL

Turn on your 45WX, push the UP arrow.

To select a higher channel, push the UP arrow key.

To select a lower channel, push the DOWN arrow key.

**Note: To quick advance channels, press and hold the selection key.



LCD DISPLAY

All the information you need is provided from this LCD display panel.

2 digit channel display / 5 digit frequency display

(F) = Function Key indicator

(AM) = Amplitude Modulation

(WX) = Weather station

(TX) = Transmit indicator

(RX) = Receive indicator

(LOW) = Low power setting

(M) = Memory indicator

Memory channel number

(SCAN) = Scan indicator

(DW) = Dual Watch indicator

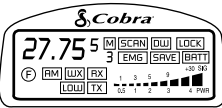
(EMG) = Emergency channel 9

(SAVE) = Auto Battery

Save feature indicator

(LOCK) = Lock key indicator

(BATT) = Battery low indicator



TRANSMIT / RECEIVE

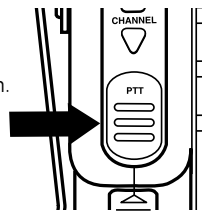
To transmit, push the PTT button.

The (TX) will be displayed during transmissions.

Hold the 45WX mic about 2 inches from your mouth.

Speak into the microphone in a normal voice.

Release the PTT button to receive incoming transmissions.



**Note: While the PTT button is depressed, you cannot receive transmissions. The (RX) icon is displayed when the radio is in receive mode.

OPERATION

ONE TOUCH 9 & 15/DUAL WATCH

11

ONE TOUCH CHANNEL 9 & 19

Instant access to emergency channel 9 or information channel 19.

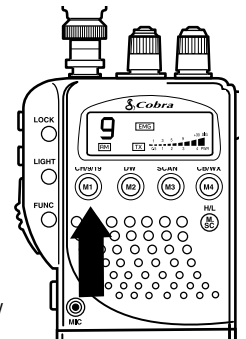
Example: You are on channel 40 and wish to check channel 9 & 19.

To switch to channel 9, push once.

To switch to channel 19, push twice.

To return to original channel, push three times.

**Note: At anytime you can change channels by pressing the channel selector key.



DUAL WATCH

Dual Watch allows simultaneous monitoring of any two preselected channels.

Example: You want to monitor channel 11 and 17 for incoming transmissions.

Set your squelch to the Desired Squelch Setting (DSS). (See pp 9)

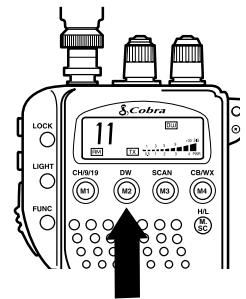
Select channel 11, and push and hold the DW key until a "beep" is heard. The (DW) icon will flash.

Select channel 17, and push and hold the (DW) key until a "beep" is heard. The (DW) icon will stay on and the 45WX will switch between channels 11 and 17.

The 45WX will stop scanning and monitor a channel when it receives an incoming transmission.

Five seconds after the transmission stops, the 45WX will continue to switch between Channels.

**Note: At a later date, you can recall your preset (DW) channels by pushing and releasing the (DW) key.



OPERATION

WEATHER SCAN/WEATHER CHANNEL

12

ALL CHANNEL SCAN

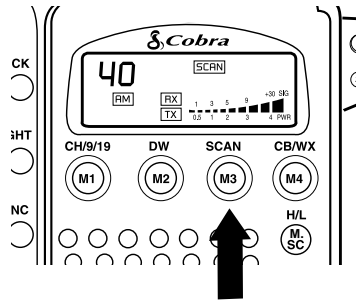
Scans all 40 channels.

Be sure your squelch is set to the **Desired Squelch Setting**. (See pp 9)

Push the Scan key.

The 45WX will stop scanning and monitor a channel when it receives an incoming transmission. Five seconds after the transmission stops, the 45WX will continue scanning.

****Note:** At anytime you can stop scanning by pressing another key on the 45WX.



WEATHER CHANNELS

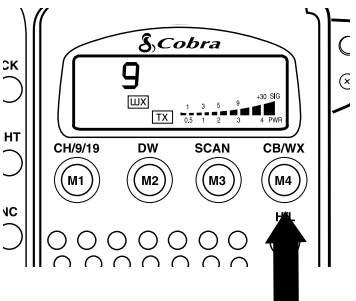
10 National Weather Channels (8 NOAA and 2 Canadian) provide full coverage to keep you informed of weather conditions.

Push the CB/WX key.

The **WX** icon will appear.

Change weather channels by pushing the Up/Down channel keys. Sometimes more than one channel can be received. Select the weather channel with the clearest audio quality.

To return to normal CB operation, push the CB/WX key again. The **AM** icon will appear.



****Note:** Some areas may not have a broadcast tower within transmission range of your 45WX.

OPERATION

POWER HI-LO/LOW BATTERY

13

POWER HIGH / LOW

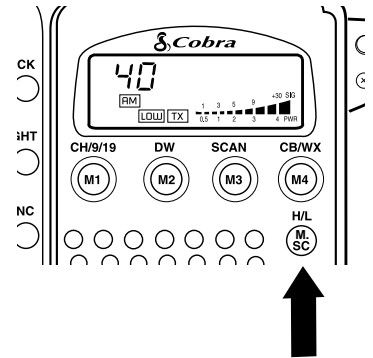
Reduces power output to 1 watt to extend battery life.

Push the H/L key.

The **LOW** icon will appear.

To return to full power, push the H/L key again.

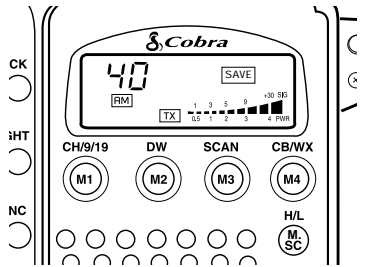
****Note:** Reduce power setting reduces the range of your 45WX.



AUTO BATTERY SAVE INDICATOR

Your 45WX has a unique circuit designed to dramatically extend the life of the batteries. If there are no transmissions within 10 seconds, your 45WX will automatically switch to battery save mode. The **SAVE** icon will appear and power usage will be reduced. Full power will be restored with the push of any key.

****Note:** The Auto Battery Save Circuit will not effect incoming transmissions.



OPERATIONS

MEMORY CHANNELS/MEMORY CHANNEL SCAN

14

MEMORY CHANNELS

Recall eight of your most used channels.

Saving Channels in Memory

Select desired channel to store in memory.

Press Function key once. The **F** icon will appear.

Press and hold the desired memory location key. The **M** icon will appear with the corresponding memory location number.

**Note: There are four memory locations as indicated on the key pad; F/M1, F/M2, F/M3, F/M4. There are four additional memory locations available; F/Lock, F/Light, F/Channel Up, F/Channel Down.

Retrieving Channels from Memory

Press the Function key.

Press and release the desired memory location key.

MEMORY CHANNEL SCAN

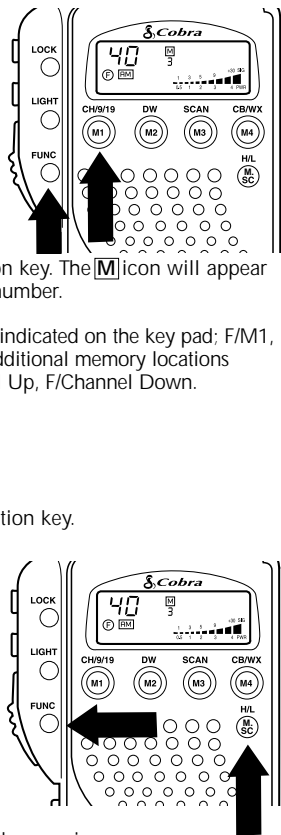
Be sure your squelch is set to the Desired Squelch Setting (**DSS**). (See pp 9)

Press and release the Function key.

Press and release the M.SC key.

The 45WX will stop scanning and monitor a memory channel when it receives an incoming transmission. Five seconds after the transmission stops, the 45WX will continue scanning.

**Note: At anytime you can stop scanning by pressing another key on the 45WX.



OPERATION

FREQUENCY DISPLAY/IN VEHICLE USE

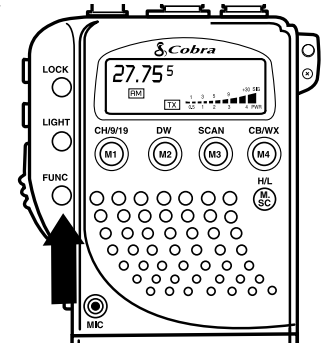
15

5 DIGIT FREQUENCY DISPLAY

Your 45WX has the capability to display the frequency of the channel you selected.

Push and hold the function key for approximately 3 seconds.

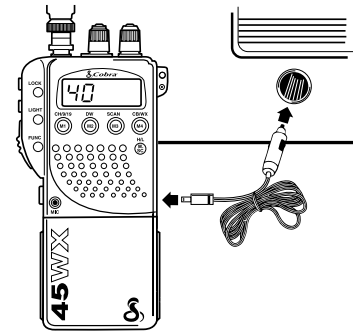
To switch back to channel readout, push and hold the function key until the display changes.



IN VEHICLE USE

Your 45WX can be connected to a 12 volt power source with the cigarette power cord adaptor provided. Connect adaptor as shown.

**Note: Due to the characteristics of CB transmissions, it may be difficult to transmit and receive from inside your car with antenna provided. Roof mounted antennas can dramatically improve transmissions and will increase your range. You will need a quality roof mount antenna and a BNC/SO239 adapter. See accessories section for details.



OPERATION

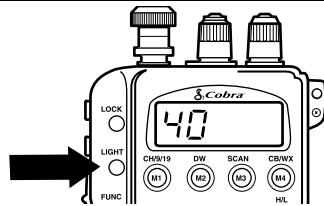
LIGHTED DISPLAY/KEY LOCK/HOW YOUR CB SERVES YOU

16

LIGHTED DISPLAY

To illuminate the display push the light key.

Display will illuminate for 5 seconds, then automatically turn off to save batteries.

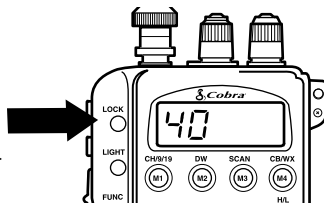


LOCK KEY

Lock all function buttons preventing accidental actuation.

To lock the key pad push the lock key.

To Unlock, push the LOCK key again.



HOW YOUR CB CAN SERVE YOU

- Warn of traffic tie ups ahead.
- Provide weather and road information.
- Provide help fast in event of emergency or breakdown.
- Suggest good spots to eat and sleep.
- Make long trips more interesting, and help keep you awake.
- Provide direct contact with your office or home.
- Make friends as you travel.
- Provide "local information" to find your destination.
- Help law enforcement officers by reporting drunk and reckless drivers.

A FEW RULES YOU SHOULD KNOW

1. You are not allowed to carry on a conversation with another station for more than five minutes at a time without taking a one-minute break to give others a chance to use the channel.
2. You are not allowed to blast others off the air by overpowering them with illegally amplified transmitter power or illegally high antennas.
3. You can't use the CB to promote illegal activities.
4. You are not allowed to use profanity.
5. You may not play music in your CB.
6. You may not use your CB to sell merchandise or professional service.

WEATHER CHANNEL MESSAGES

You can receive up to the minute local area weather reports provided by NOAA (National Oceanic Atmospheric Administration) 24 hours a day, 7 days a week. An agency of the U.S. Department of Commerce, NOAA warns of dangerous weather, charts our seas and skies, guides our use and protection of ocean and coastal resources and conducts research to improve our understanding and stewardship of the environment.

The National Weather Service operates about 380 stations. Approximately 90 percent of the Nation's population is within listening range of a NOAA Weather Radio broadcast.

A similar network of about 15 stations using the same frequencies broadcast continuous weather information across much of southern Canada.

If you have a question concerning NOAA Weather Radio or wish to receive a listing of NOAA Weather Radio receiver locations, please contact your nearest National Weather Service Office, or write to National Weather Service (Attn: W/OM11), National Oceanic and Atmospheric Administration, Silver Spring, MD. 20910.

**Note: Some areas may not have a broadcast tower within the transmission range of your 45WX.

18 USE CHANNEL 9 FOR EMERGENCY ONLY

Operating Procedure for Emergency Communications

- For **EMERGENCY** communications, **set radio to Ch. 9**. For non-emergency communications, select desired Channel by rotating the CHANNEL UP/DOWN tuning knob until reaching the desired Channel.

Be sure the antenna is properly connected to the radio before transmitting. Prolonged transmitting without an antenna, or use of a poorly matched antenna, could cause damage to the transmitter.

- When asking for aid on Channel 9 it is suggested that you request a **REACT** base to respond by saying "Break Channel 9 for a REACT base" and provide the **CB DISTRESS DATA (called "CLIP")**:

CALL SIGN-Identify yourself and vehicle.

LOCATION-Be exact.

INJURIES-Number. Type. Trapped?

PROBLEM- Give details and help required. Air **CLIP** repeatedly so any monitor can aid you.

If you don't receive a response on Ch. 9; try Ch.14 or 19.

FCC gives the following examples of permitted and prohibited types of communications for use on Channel 9. These are guidelines and are not intended to be all-inclusive.

Permitted	Example Message
Yes	"A tornado sighted six miles north of town."
No	"This is observation post number 10. No tornado sighted."
Yes	"I am out of gas on Interstate 95 at mile marker 121."
No	"I am out of gas in my driveway."
Yes	"There is a four-car collision at Exit 10 on the Beltway, send police and ambulance."
No	"Traffic is moving smoothly on the Beltway."
Yes	"Base to Unit 1, the Weather Bureau has just issued a thunderstorm warning. Bring the sailboat into port."
No	"Attention all motorists. The Weather Bureau advises that the snow tomorrow will accumulate 4 to 6 inches."
Yes	"There is a fire in the building on the corner of 6th and Main Streets."
No	"This is Halloween patrol unit number 3. Everything is quiet here."

CB 10-CODES

Citizens Band radio operators have largely adopted the "10-code" for standard questions and answers. Its use permits faster communications and better understanding in noisy areas. The following table lists some of the more common codes and their meanings:

Code	Meaning	Code	Meaning
10-1	Receiving poorly	10-37	Wrecker needed at
10-2	Receiving well	10-38	Ambulance needed at
10-3	Stop transmitting	10-39	Your message delivered
10-4	OK, message received	10-41	Please turn to channel
10-5	Relay message	10-42	Traffic accident at
10-6	Busy, stand by	10-43	Traffic Tie up at
10-7	Out of service, leaving air	10-44	I have a message for you
10-8	In service, subject to call	10-45	All units within range please report
10-9	Repeat message	10-50	Break channel
10-10	Transmission completed, standing by	10-60	What is next message number?
10-11	Talking too rapidly	10-62	Unable to copy, use phone
10-12	Visitors present	10-63	Net directed to
10-13	Advise Weather/Road conditions	10-64	Net clear
10-16	Make pick up at	10-65	Awaiting your next message/assignment
10-17	Urgent business	10-67	All units comply
10-18	Anything for us?	10-70	Fire at
10-19	Nothing for you, return to base	10-71	Proceed with transmission in sequence
10-20	My location is	10-77	Negative contact
10-21	Call by telephone	10-81	Reserve hotel room for
10-22	Report in person to	10-82	Reserve room for
10-23	Stand by	10-84	My telephone number is
10-24	Completed last assignment	10-85	My address is
10-25	Can you contact	10-91	Talk closer to mike
10-26	Disregard last information	10-93	Check my frequency on this channel
10-27	I am moving to channel	10-94	Please give me a long count
10-28	Identify your station	10-99	Mission completed, all units secure
10-29	Time is up for contact	10-200	Police needed at
10-30	Does not conform to FCC rules		
10-32	I will give you a radio check		
10-33	EMERGENCY TRAFFIC		
10-34	Trouble at this station		
10-35	Confidential information		
10-36	Correct time is		

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FREQUENCY RANGE

The COBRA 45 WX 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 and 10 weather channels as shown below.

CB Channel	Channel Freq. in MHz	CB Channel	Channel Freq. in MHz	Weather Channel	Weather Freq. in MHz
1	26.965	21	27.215	1	162.550
2	26.975	22	27.225	2	162.400
3	26.985	23	27.255	3	162.475
4	27.005	24	27.235	4	162.425
5	27.015	25	27.245	5	162.450
6	27.025	26	27.265	6	162.500
7	27.035	27	27.275	7	162.525
8	27.055	28	27.285	8	161.650
9	27.065	29	27.295	9	161.775
10	27.075	30	27.305	0	163.275
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		

HH-45 WX SPECIFICATIONS

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GENERAL

CHANNELS

CB - 40 CH

WEATHER - 10 CH

CB - 26.965 TO 27.405 MHZ

WEATHER - 161.650 TO 163.275 MHZ

0.005 %

PLL (PHASE LOCK LOOP) SYNTHESIZER

-30° C TO + 65° C

ELECTRET, PUSH-TO-TALK

9V VDC, DETACHABLE

12 VDC, EXTERNAL

TYPE BNC

LCD DISPLAY, ICONS

2 1/2" L x 5 3/4" H x 1 1/8" D

9 oz.

FREQUENCY RANGE

FREQUENCY TOLERANCE

FREQUENCY CONTROL

OPERATING TEMPERATURE RANGE

MICROPHONE

INPUT VOLTAGE

ANTENNA CONNECTOR

METER

SIZE, WITH 6 CELL BATT. PACK

WEIGHT

TRANSMITTER

POWER OUTPUT

3.5 W AT 9 VDC - HIGH, 1.0 W IN LOW

4.0 W AT 13.8 VDC - HIGH, 2.0 W IN LOW

AM

MODULATION

FREQUENCY RESPONSE

OUTPUT IMPEDANCE

300 - 3000 HZ AT -6 DB

50 OHMS, UNBALANCED

RECEIVER

CB

SENSITIVITY

IF FREQUENCY

LESS THAN 1 μ V FOR 10 DB S/N

DUAL CONVERSION

1st - 10.690 MHZ, 2ND - 455 KHZ

500 mW MAXIMUM AT 10 % DISTORTION

300 - 3000 HZ AT -6 DB

GREATER THAN 60 DB

50 DB MIN.

BUILT-IN.

PLL (PHASE LOCK LOOP)

WEATHER

SENSITIVITY

IF FREQUENCY

LESS THAN 1 μ V FOR 12 DB SINAD

DUAL CONVERSION

1st: -10.690 MHz

2nd: -455 KHz

MAXIMUM 500 mW AT 10 % DISTORTION

300 - 3000 HZ AT -6 DB

1050 HZ, TONE DECODER

AUDIO OUTPUT

FREQUENCY RESPONSE

EMERGENCY ALERT TONE

LIMITED TWO YEAR WARRANTY

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. For further details concerning procedures for obtaining service, see the "If You Think You Need Service" section of the Owner's Manual.

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.







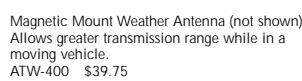
COBRA shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation.

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COBRA ELECTRONICS CORPORATION
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