

Cobra Electronics Corporation 6500 West Cortland Street Chicago, IL60707

#### 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.

- 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.
- 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.

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Part No. 480-301-P-001

# Scobra 148 NW ST

Operating Instructions for your Cobra 148 NW ST

**CB Radio** 

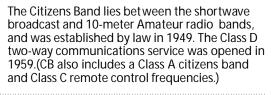






"Ingenious Products for Easier Communication."

# The CB Story



#### **FCC Regulations**

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**

All transmitter adjustments other than those supplied by the manufacturer as front panel operating controls, must be made by, or under the supervision of, the holder of an FCC-issued General Radio-Telephone Operator's License.

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.

You should read and understand Part 95 (included with this unit) of the FCC Rules and Regulations, before operating your Cobra radio, even though the FCC no longer requires you to obtain an operator's license.

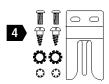
#### What's Included with Your 148 NW ST

- 1. CB transceiver
- **6.** DC power cord
- 2. Microphone
- **7.** FCC rules
- 3. Transceiver bracket
- 4. Microphone bracket
- (not shown)
- 5. Operating Manual













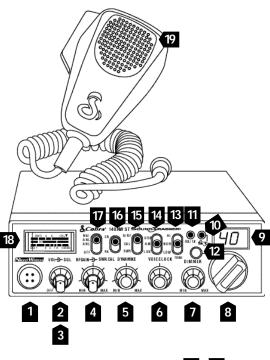
# **Controls and Indicators**

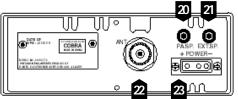
# Our Thanks to You

- 1. 4-Pin Microphone Connector
- 2. Power On/Off, Volume
- 3. Squelch
- 4. RFGain/SWRCal
- 5. Dynamike
- 6. Voicelock
- 7. Dimmer Control
- 8. Channel Selector
- 9. LED Channel Display
- **10** SoundTracker™ LED
- 11. RX(Receive)/TX(Transmit) LED Indicator
- 12 SoundTracker™ On/Off
- 13. Hi/Lo Tone Switch
- 14. USB/AM/LSB Switch
- 15. S/RF/CAL/SWR Switch
- 16. CB/PA Switch
- 17. NB/ANL/ANL/Off Switch
- 18 Signal Strength Meter
- 19. Microphone

#### Back Side

- 20. Public Address Speaker Jack
- 21. External Speaker Jack
- 22 Antenna Connector
- 23. Power Jack





Thank you for purchasing the Cobra 148 NW ST CB Radio. Properly used, this Cobra product will give you many years of reliable service.

#### SoundTracker™

"Cuts noise coming in...strengthens signals going out."

This Patent pending technology dramatically improves transmission and reception of CB signals.

The revolutionary SoundTracker™System reconfigures the transmission signal which allows it to be transferred more efficiently through cluttered airwaves.

At the same time, it significantly reduces the amount of static on all incoming CB signals.

The end result is a cleaner, clearer sounding reception of signals and a more powerful transmission which dramatically improves CB communications.

#### **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** 

# How to Use Your Cobra 148 NW ST

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#### Features of This Product

- 40 CB Radio Channels
- 80 SSB Channels
- SoundTracker<sup>™</sup> System
- Heavy-Duty Dynamic Microphone
- Full 4 Watts AM RF Power Output
- 12 Watts SSB RF Power Output
- Instant Channel 9
- Front Panel 4-Pin Microphone Connector
- Switchable Noise Blanker
- · Adjustable Dynamike Boost
- Tactile Controls
- · SWR Calibration Meter
- RF Gain
- 9 Ft Mic Cord
- Illuminated Front Panel
- Dimmer Control





# **Installation** Installation

#### Location

#### Location

Plan location of transceiver and microphone bracket before starting the installation.

Select a location that is convenient for operation, yet does not interfere with the driver or passenger.

The transceiver is usually mounted to the underside of the dash with the microphone bracket beside it.

# Mounting and Connection

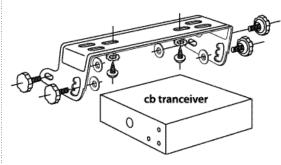
#### Note

The transceiver is held in the universal mounting bracket by four thumbscrews which allow for adjustment at a convenient angle.

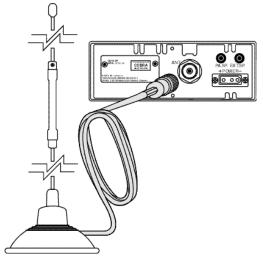
The bracket includes two selftapping screws and star washers. The mounting must be mechanically strong, conveniently located.

#### **Mounting and Connection**

• Hold the radio with the mounting bracket in the exact desired location. If there is no interference, remove the bracket and use it as a template to mark the location for the mounting screws.



2 Drill the holes and secure the bracket.



**3** Connect the antenna cable plug to the receptacle marked "ANT" on the back of the unit.

continued



# **Installation Installation**

#### Note

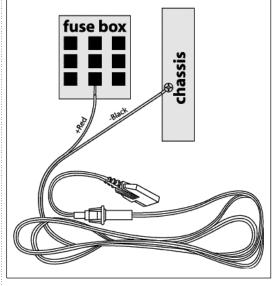
Connecting to an accessory fuse prevents the unit from being left on accidentally, and also permits operating the unit without running the engine.

#### Note

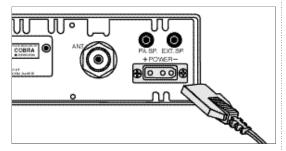
In positive ground vehicles the red wire goes to the chassis and the black wire is connected to the ignition switch.

#### Note

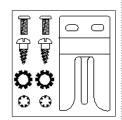
Before installing the CB radio, visually check the vehicle's battery connection to determine which terminal, positive or negative, is grounded (positive is the larger of the two) to the engine block (or chassis). A negatively grounded vehicle has its negative lead grounded to the chassis.

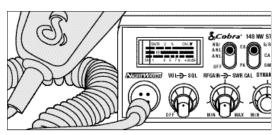


- In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.
- Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.



- Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.
- Mount the microphone bracket on either side of the unit (driver's left) using two screws supplied. Bracket should be placed under the dash so microphone is readily accessible.





Attach the 4-pin microphone cable to receptacle on front of unit and Install unit in bracket securely.

#### Antennas

# Ignition Noise Interference

#### CB Antenna

#### Note

For optimum performance in passenger cars the ideal antenna location is on the center of the roof. Second choice is on the center of the trunk.

#### Note

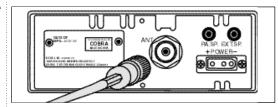
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via a ground strap if the antenna is mounted on mirror bracket.

#### Note

3-way Combination Antennas are also available which allow operation of all three bands (AM-FM & CB), using a single antenna. However, this type of antenna usually results in less than normal transmit and receive range when compared to a standard-type "Single Band" CB antenna. Call 773-889-3087 for further information.

#### **CB Antenna**

Since the maximum allowable power output of the transmitter is limited by the FCC, the antenna is critical in affecting transmission distance. Only a properly matched antenna system will allow maximum power output. Cobra loaded type antenna models are highly recommended for most installations. Consult your Cobra dealer for further details, or call 773.889.3087 and speak to a Cobra representative.



 A standard antenna connector is provided on the transceiver for easy connection.

#### Marine Installation

The transceiver will not operate at maximum efficiency in a boat without a ground plate, (unless it has a steel hull). Before attempting installation, consult your dealer for information regarding an adequate grounding system and prevention of electrolysis between fittings in the hull and water.

Use of a mobile receiver at low signal levels is normally limited by the presence of electrical noise. The primary source of noise in automobiles is from the alternator and ignition system. Typically, when signal level is adequate, the background noise does not present a serious problem. Also, when extremely low level signals are being received, the transceiver may be operated with the vehicle's engine turned off. The unit requires very little current and therefore will not significantly discharge the vehicle's battery.

Even though the Cobra 148 NW ST has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Many possibilities exist and variations between vehicles require different solutions. Consult your COBRA dealer or a 2-way radio technician for help in locating the source of a severe noise.



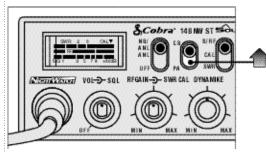


# Operation

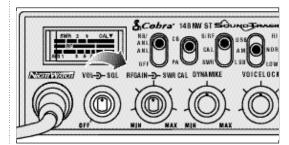
#### **Turning On**

#### **Turning On**

Make sure the power cord, antenna and microphone are connected to their proper connectors before starting.

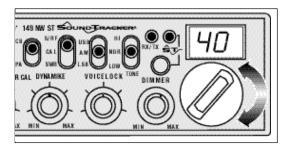


**1** The **©** CB/PA button should be in the CB position.



2 Rotate the On/Off Volume knob clockwise to a normal listening level.

#### **Setting Channel Selector**



Select one of forty channels and adjust volume. The selected channel is indicated by the LED readout directly above the channel selector knob

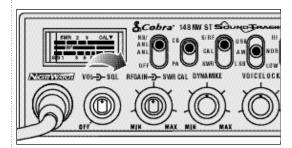
#### Setting Channel Selector

8

# Operation

#### To Receive

#### To Receive

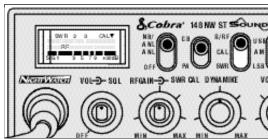


Rotate the On/Off Volume knob *clockwise* the green RT/TX LED will be illuminated.

#### S-Meter

#### S-Meter

Swings proportionately to strength of incoming signal when receiving.



• The S/RF-SWR-CAL switch must be in the S/RF position to read the meter.

#### The SoundTracker™ System

While previous systems only "blanket out" or limit noise in higher sound frequencies, the revolutionary new SoundTracker™ System actually reduces noise while leaving the signal intact in the reception mode. In the transmission mode, it actually strengthens the signal, providing you with a significant reduction in noise on reception and transmission.

Sound clarity is measured by the ratio of the signal level to the noise level. The higher the signal-to-noise ratio, the better the sound.

#### **How SoundTracker™ Works**

On Reception - "Cuts noise coming in"

With a normal CB, distant signals fall below the squelch level and are unintelligible. With a SoundTracker™ CB, the noise level is cut up to 90%,which increases the signal-to-noise ratio and dramatically improves signal clarity. This also allows you to significantly reduce the squelch level,which greatly expands your listening range.

On Transmission - "Strengthens signals going out"

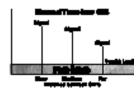
A SoundTracker™ CB strengthens the transmit signal by more effectively using the available RF power output of the CB. The result is improved transmission signal clarity and an expanded transmission range.



#### Note

SoundTracker™ gives you clearer, cleaner reception to improve CB communications while on the air.

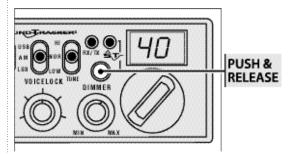




# Operation

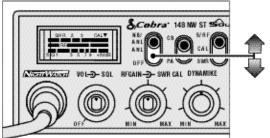
# $\begin{array}{c} \textbf{Activating} \\ \textbf{SoundTracker}^{^{\text{\tiny TM}}} \end{array}$

#### Activating SoundTracker™



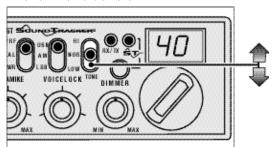
• Push and release the ST button. Red LED is illuminated when SoundTracker™ is turned on.

# NB-ANL/ANL/OFF (Noise Blanker/Automatic Noise Limiter) Switch



When switched to ANL the Automatic Noise Limiter is activated. This helps reduce noise created by the vehicle's electronics. When switched to NB/ANL position the RF Noise Blanker is also activated, providing increased noise filtration. When switched to OFF position all noise filtration will be turned off.

#### **Hi/Low Tone Control**



• When switched, this button is used to shape the audio response to the operator's preference.

NB-ANL/ANL/ OFF (Noise Blanker/ Automatic Noise Limiter) Switch

#### Note

The RF Noise Blanker is very effective in reducing repetitive noises such as ignition interference.
The Automatic Noise Limiter

The Automatic Noise Limiter helps reduce noise created by the vehicle's electronics.

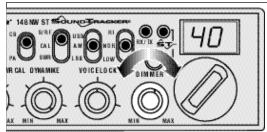
#### Hi/Low/ Tone Control

# Operation

#### **Dimmer Control**

#### **Dimmer Control**

Controls the brightness of the front panel, signal strength meter and channel display



For maximum brightness turn @ clockwise; counterclockwise for minimum illumination

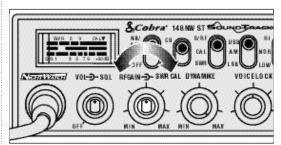
#### **RF Gain Control**

The RF Gain is used to optimize reception in weak signal areas.

Note

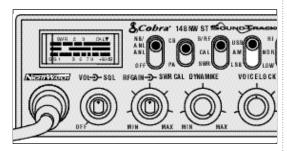
#### **RF Gain Control**

The RF Gain is used to optimize reception in strong or weak signal areas.



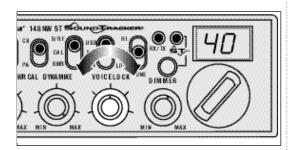
• Rotate the © RF Gain knob counterclockwise to reduce gain in strong signal areas. In weak signal areas turn clockwise to increase gain.

#### **USB/AM/LSB Switch**



Select mode of operation from USB to AM to LSB

#### Voice Lock

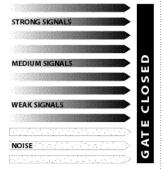


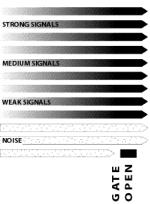
Rotate to clarify receiver's frequencies above and below assigned frequencies. Primarily used to tune SSB signals as well as optimizing AM signals.

# Operation

#### **Setting Squelch**

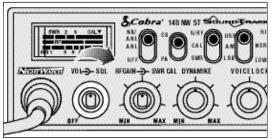
#### Gate closed



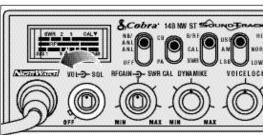


#### **Setting Squelch**

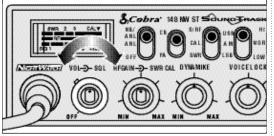
Squelch is the "control gate" for incoming signals.



• Full © clockwise rotation closes the gate allowing only very strong signals to enter.

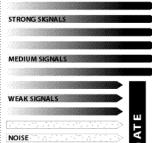


"gate" allowing all signals in.



To achieve the Desired Squelch Setting (DSS), turn the Squelch control (10) counterclockwise until you hear noise. Now turn the control clockwise just until the noise stops. This is the DSS setting.

Gate set to Desired Squelch Setting (DSS)



Gate open

565 2	, CALY	S,Cobra	148 MW ST ***********************************	US PAO
	WOL⇒-SQL ®	GAIN-SWR	CAL DYNAMIKE	VOICELOG
13	955	NAX NAX	NIN NAX	<b>S</b>

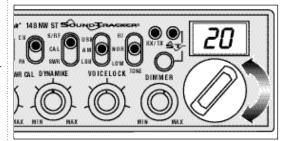
2 Full @ counterclockwise rotation opens the

# Calibrate For SWR (Standing Wave Ratio)

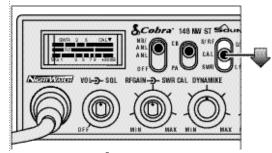
#### Note

SWR calibration is done to properly adjust the length of the antenna and to monitor the quality of the coaxial cable and all RF connections. This calibration is critical in order to achieve optimum performance.

#### Calibrate for SWR (Standing Wave Ratio)



1 Select Channel 20.

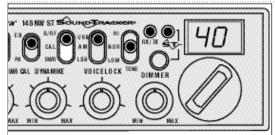


2 Switch to the CAL position.



3 Push and hold mic button.

# Operation



4 While holding mic button adjust the SWR CAL knob so the meter needle swings to the CAL ▼ mark on



the meter (located on the right). If optimum signal is not achieved (less than 3) a slight adjustment to the length of the antenna must be made. Recalibrate.

- **5** Repeat the same steps on Channel 1 and 40.
- 6 Continue holding the mic button and turn the SWR CAL knob to the SWR position for SWR measurement.

#### Note

Calibration must be made in an open area (never in a garage). Vehicle doors must be closed. No one should be standing near the antenna.(See your antenna directions for more complete information).

#### Note

The reading will be slightly higher on Channels 1 and 40 compared to Channel 20.

#### Note

When switched to SWR position the meter needle should ideally be as far to the left as possible. Anything over 3 is not acceptable. A slight antenna height adjustment (higher or lower) may be required. Repeat recali-



bration step.

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# Operation

#### To Transmit



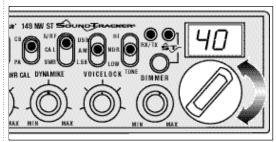
#### Caution!

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

Be sure to read the F.C.C. Rules and Regulations included with this unit before transmitting.

#### Setting Dynamike

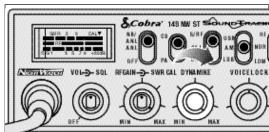
#### To Transmit



Select desired channel.

#### **Setting Dynamike**

This controls the microphone sensitivity (outgoing audio level).



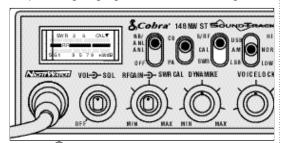
• Initially, set fully © clockwise so that maximum voice volume is available. Dynamike may have to be reduced in some conditions.

# PUSH & HOLD

Press and hold mic button to transmit. Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. Release to receive.

#### **RF Meter**

This meter swings proportionately to the RF output (outgoing signal) while transmitting.



The S/RF-SWR-CAL switch must be in the S/RF position.

**Transmit** 

**RF** Meter

20

# Operation

## **External Speaker**

# **External Speaker**

The external speaker jack is used for remote

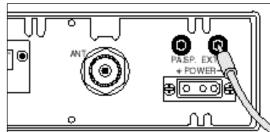
#### Note The external speaker should have 8-ohm impedance and be rated to handle at least 4.0

watts. When the external speaker is plugged in,the internal speaker is automatically disconnected.

#### Note

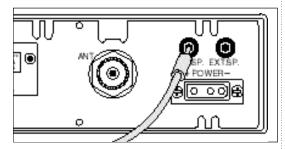
Cobra external speakers are rated at 10 watts. See Accessories page 39.

receiver monitoring.

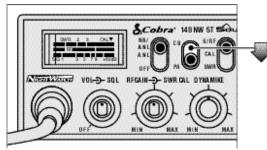


Onnect an external speaker to the external speaker jack on the rear panel.

#### PA (Public Address)



1 Connect an external PA speaker to the PA jack on the rear panel.



2 Set CB/PA switch to PA position.

#### PA (Public Address)

#### Note

Speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts.

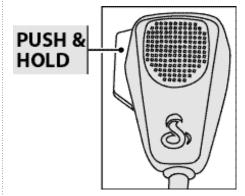
#### Note

The speaker should be directed away from the microphone to prevent acoustic feedback.

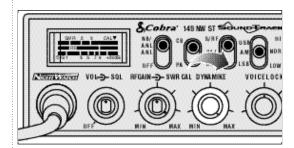
#### Note

Activity on the CB channel will be heard through the PA speaker. Adjust volume control to a normal listening level.

# Operation



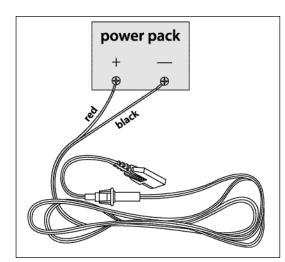
**3** Push and hold microphone button and speak in a normal voice. Your voice will now transmit on the PA speaker.



Adjust PA speaker volume with the Dynamike control.

# Base Station Operation (From 120V AC House Current)

To operate your transceiver from home or office you will need a 13.8 volt DC Power Pack rated at a minimum of 2 amps, and a properly installed base station antenna.



Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack. Base Station Operation (From 120V AC House Current)



Do not attempt to operate this transceiver by connecting it directly to 120 vac.

#### Note

For further information call Cobra Customer Service 1.773.889.3087.

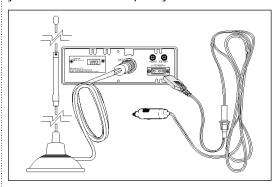
# Temporary Mobile Set-Up

# ANT PASSE STATE OF CORRECT OF A STATE OF A S

- 2 Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.
- 3 Connect properly installed and matched base station antenna.

#### **Temporary Mobile Operation**

For temporary mobile operation you may want to purchase an optional cigarette lighter adapter from your COBRA dealer. This adapter and a magnetic mount antenna allow you to quickly "install" your transceiver for temporary use.



### How Your CB Can Serve You

- · 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 driving

#### 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.

#### Note

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

A Few Rules

You Should

Channel 9

**Emergency Messages** 

Know

#### 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 *Identify yourself.* 

L ocation Be exact.

I njuries Number. Type. Trapped?

P roblem Give details and help needed.

Transmit **CLIP** repeatedly so any monitor can assist.

Temporary Mobile Set-Up





# How Your CB Can Serve You

# How Your CB Can Serve You

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."

#### **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:

	<del>-</del>
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 a t
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
	10-1 10-2 10-3 10-4 10-5 10-6 10-7 10-8 10-9 10-10 10-11 10-12 10-13 10-16 10-17 10-18 10-19 10-20 10-21 10-22 10-23 10-24 10-25 10-26 10-27

CB 10-Codes

# How Your CB Can Serve You

# **Frequency Ranges**

Code	Meaning				
10-29	Time is up for contact			NW ST tr	
10-30	Does not conform to FCC rules	one of the most advanced AM two-wa used as a Class D station in the Citizen Service. This unit features advanced Pr			
10-33	Emergency traffic				
10-34	Trouble at this station				
10-35	Confidential information			itry provi channels	
10-36	Correct time is	age or a		citatitieis	
10-37	Wrecker needed at	CD	Channel	CD	Channel
10-38	Ambulance needed	CB Channel	Freq.	CB Channel	Freq.
10-39	Message delivered	Channe	III IVIITZ	CHAIHE	III IVIITZ
10-37	Turn to channel	1	26.965	21	27.215
10-41	Traffic accident at	2	26.975	22	27.225
10-43	Traffic tie up at	3	26.985	23	27.255
10-43	Have a message for	4	27.005		27.235
10-45	All units within range please report	5	27.015	25	27.245
10-43	Break channel		07.005	0.4	07.075
10-60	What is next message number?	6		26	27.265
10-62	Unable to copy. Use phone	7 8	27.035	27	27.275
10-63	Net directed to	9		28 29	27.285 27.295
10-64	Net clear	10	27.005		27.305
0-65	Awaiting your next message/assignment		27.070		27.000
10-67	All units comply	11	27.085	31	27.315
10-07	Fire at	12	27.105		27.325
10-70 10-71	Proceed, transmission in sequence	13	27.115	33	27.335
10-71 10-77	Negative contact	14	27.125	34	27.345
10-77 10-81	Reserve hotel room for	15	27.135	35	27.355
10-81	Reserve room for				
0-85		16	27.155		27.365
	My address is Talk closer to mic	17	27.165	37	27.375
0-91		18 10	27.175	38	27.385
10-93	Check my frequency on this channel	19 20	27.185 27.205	39 40	27.395 27.405
10-94	Give me a long count	20	21.203	40	27.403
10-99	Mission completed, all units secure				
10-200	Police needed at				

# 148 NW ST Specifications

# Limited One Year Warranty

CENEDAL	
GENERAL CHANNELS	40 AM 40 LCD 40 LICD
FREQUENCY RANGE	40 AIVI, 40 L3B, 40 U3B
FREQUENCY CONTROL	PHASE LOCK LOOP (PPL) SYNTHESIZER
FREQUENCY TOLERANCE	
FREQUENCY STABILITY	
OPERATING TEMPERATURE RANGE	30° C TO +50° C
: MICROPHONE	PLUG-IN DYNAMIC WITH PUSH-TO-TALK SWITCH
: INPUT VOLTAGE	13.8V DC NOM. 15.9V MAX., 11.7V MIN.
	(POSITIVE OR NEGATIVE GROUND)TRANSMIT: AM FULL MOD., 2.2A. SSB 12
CURRENT DRAIN	TRANSMIT: AM FULL MOD.,2.2A. SSB 12
:	WATTS PEP OUTPUT, 2A.
:	RECEIVE:SQUELCHED, 0.25A;MAX. AUDIO OUTPUT, 0.6A.
SIZE	00 IPU I, 0.0A. 2 2/0" LI V 7 7/0" M V 0 1/4" D
WEIGHT	
ANTENNA CONNECTOR	
1	COLOR LIGHT EMITTING DIODE
MFTFR	ILLUMINATED;INDICATES RELATIVE POWER
	OUTPUT, RECEIVED SIGNAL STRENGTH AND VSW
TRANSMITTER	
POWER OUTPUT	AM 4 WATTS SSR 12 WATTS PEP
	HIGH- AND LOW-LEVEL CLASS B, AMPLITUDE
:	MODIII ATION
INTERMODULATION DISTORTION	SSB: 3RD ORDER. MORE THAN -25dB
1	51H ORDER, MORE 1HAN -35dB
SSB CARRIER SUPPRESSION	
UNWANTED SIDEBAND	
FREQUENCY RESPONSE	AM AND SSB; 300 TO 2500 HZ
OUTPUT IMPEDANCE	50 OHMS, UNBALANCED
OUTPUT INDICATORS	METER SHOWS RELATIVE RF OUTPUT POWER
<u> </u>	AND SWR.TRANSMIT LED GLOWS RED
<u> </u>	WHEN TRANSMITTER IS IN OPERATION.
RECEIVER	CCD O OF THEOD TO HOUSE BY MALES
SENSITIVITY	
į	GREATER THAN 1/2-WATT OF AUDIO OUTPUT AM: 0.5 µV FOR 10 dB (S+N) /N AT
	GREATER THAN 1/2-WATT OF AUDIO OUTPUT
<u> </u>	GREATER THAN 1/2 WALL OF AGDIO COTTO
SELECTIVITY	AM: 7.8 KH7.50 dB @ 9KH7
:	SSB: 6 dB @ 1.1 KH7. 60 dB @ 2.3 KH7
IMAGE REJECTION	MORE THAN 65 dB
ADJACENT-CHANNEL REJECTION	60 dB AM & 70 dBSSB
IF FREQUENCIES	AM: 7.8MHZ 1ST IF, 455 KHZ 2 ND IF
l	SSB: 8.7 MHZ 40 dbadjustable for optimum signal
AM & SSB RF GAIN CONTROL	40 dBADJUS IABLE FOR OPTIMUM SIGNAL
RECEPTION (ACC)	LECC THAN 10 AD CHANCE IN AUDIO OUTDUT
EOD INDUTE FROM 10 TO 100 000 MICRO	LESS THAN 10 dB CHANGE IN AUDIO OUTPUT VOLTS
: FOR INFUISTROW TO TO TOU, OUT WIICKO	VOLIS
NOISE BLANKER	DE TYPE FEFECTIVE ON AM AND SSR
ANL	SWITCHARI F
	ADJUSTABLE;THRESHOLD LESS THAN 0.25 µV
VOICE LOCK RANGE	
AUDIO OUTPUT POWER	4 WATTS INTO 8 OHMS
FREQUENCY RESPONSE	300 TO 2500 HZ
DISTORTION	LESS THAN 0 % @ 0 WATTS @ 0000 HZ??
BUILT-IN SPEAKER	8 OHMS,5 WATTS
	8 OHMS; DISABLES INTERNAL SPEAKER WHEN
CONNECTED	
PA SYSTEM	A LIMETTO IN ITO EXTERNAL OREANED
POWER OUTPUT	4 WALLS INTO EXTERNAL SPEAKER
EXTERNAL SPEAKER FOR PA	8 OHM, 4 WAI 15 MIN.
: (NOT SUPPLIED) : (SPECIFICATIONS SUBJECT TO CHANGE W	(ITHOLIT NOTICE)
(SPECIFICATIONS SUBJECT TO CHANGE W	III DO I NOIRE)

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) year from 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, accom-

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.

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Cobra Electronics Corporation

6500 West Cortland Street Chicago, Illinois 60707

# **Optional Accessories**

\$7.50

# **Optional Accessories**



Replacement DC Power Cord

For in vehicle use 420-071-9-001



Replacement Mounting Bracket

For in vehicle use 250-044-N-001



Replacement Thumb Screws

For in vehicle use 634-088-9-001

Power Microphone For in vehicle use CA 75



Noise Canceling/Power Microphone

For in vehicle use CA 77

Microphone

\$24.95

For in vehicle use CA 79

Echo/Noise Canceling

\$59.95



Replacement Microphone . Bracket

For in vehicle use 741-080-9-001 \$0.45



28" Full Range Center Load, Magnetic Mount Antenna

For in vehicle use AT 35

\$19.95

\$4.50



For in vehicle use AT 55

\$27.95

\$0.60



\$21.95

Dynamic External Speaker

For in vehicle use CS 100



Noise Canceling External Speaker

For in vehicle use CS 300

\$19.95



Dynamic Noise Canceling With Talk Back External Speaker

For in vehicle use CS 500

\$24.95



39" Full Range Base Load, Magnetic Mount Antenna

For in vehicle use AT 70



44" Full Range, Center Load, Dual Band CB/WX Antenna

Allows greater transmission range while in a moving vehicle. ATW-400



Replacement Dynamic Microphone

For in vehicle use CA 73

\$12.95

#### 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
420-071-9-001	Replacement DC Power Cord	\$7.50		
250-044-N-001	Replacement Mounting Bracket	\$4.50		
634-088-9-001	Replacement Thumb Screws	\$0.60		
741-080-9-001	Replacement Microphone Bracket	\$0.45		
AT 35	28" Full Range Center Load,			
	Magnetic Mount Antenna	\$19.95		
AT 55	25" Glass Mount Antenna	\$27.95		
AT 70	39" Full Range Base Load,			
	Magnetic Mount Antenna	\$24.95		
ATW 400	44" Full Range, Center Load,			
	Dual Band CB/WX Antenna	\$27.95		
CA 73	Replacement Dynamic Microphone	\$12.95		
CA 75	Power Microphone	\$21.95		
CA 77	Noise Canceling/Power Microphone	\$24.95		
CA79	Echo/Noise Canceling Microphone	\$59.95		
CS 100	Dynamic External Speaker	\$14.95		
CS 300	Noise Canceling External Speaker	\$19.95		
CS 500	Dynamic Noise Canceling			
	With Talk Back External Speaker	\$24.95		

#### Shipping & Handling

Amount of	Shipping/
Order	Handling
\$25.00 and under	\$4.75 minimum
\$25.01-\$40.00	\$6.95
\$40.01-\$80.00	\$9.00
\$80.01-\$120.00	\$10.00
\$120.01-\$160.00	\$11.50
\$160.01 and up	\$14.25

For AK,HI and PR please add an additional \$15.00 for UPS shipments.

Prices subject to change	without notice.	Subtotal		
Tax Table Illinois residents add 7%	Michigan residents add 4 %	(Tax if applicable)		
Cook Co. residents add .75% (7.75% total) Chicago residents add 1% (8.75% total)	Ohio residents add 6% Wisconsin residents add 5%	Shipping/handling		
Indiana residents add 5%		Total		
For credit card orders fill out order and fax to: 1.773.622.2269 or call 1.773.889.3087 (Press 1 from the main menu)	Make check payable to: Cobra Acce	ssories Dept.		
Please print clearly Name 6500 West Cortland St. Chicago, IL 60707				
Address (No P.O. Box)				
City		State		
Zip		_		
Telephone ()		<u>-</u> .		
Credit Card No		_ Exp. Date		
Customer Signature _				
Circle One: Visa Ma	sterCard Disc	over		

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

# Notes

Notes	Notes
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