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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.

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Part No. 480-295-P-001

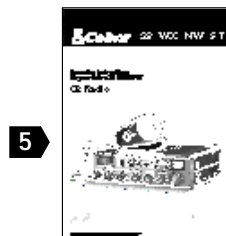
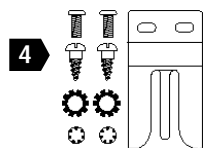
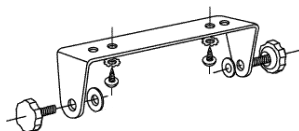
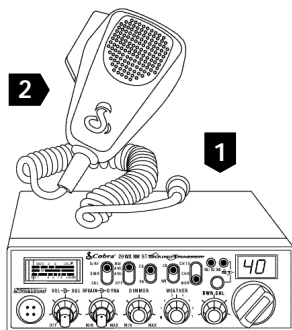
Operating Instructions for your Cobra 29 WX NW ST

CB Radio



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

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 29 WX NW ST

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

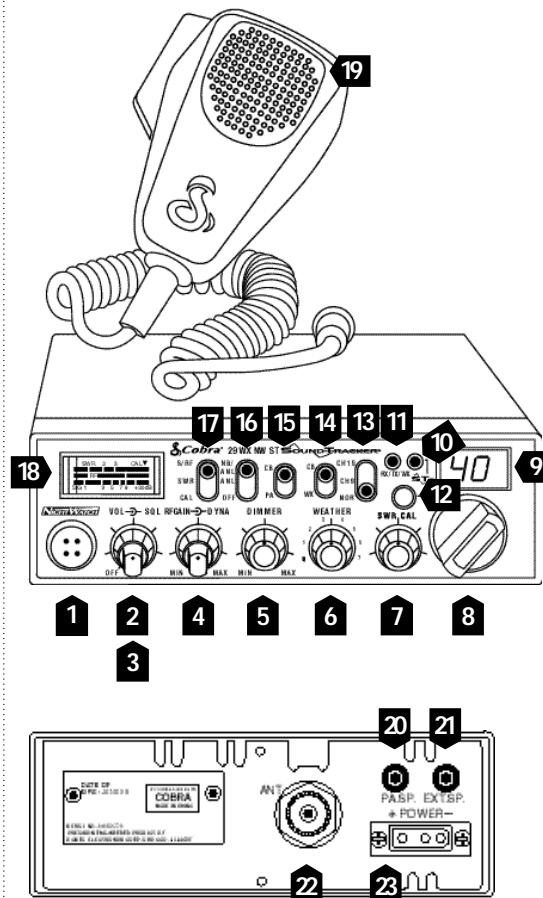
Controls and Indicators

Our Thanks to You

1. 4-Pin Microphone Connector
2. Power On/Off, Volume
3. Squelch
4. RF Gain/Dynamiqe
5. Dimmer
6. Weather Channel Selector
7. SWR CAL
8. Channel Selector
9. LED Channel Display
10. Sound Tracker™ LED
11. RX (Receive)/TX (Transmit), WX Weather LED Indicator
12. Sound Tracker™ On/Off
13. Channel 19/Channel 9/ Normal Switch
14. CB/WX Weather Switch
15. CB/PA Switch
16. NB/ANL ANL Off Switch
17. S/Rf SWR CAL 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 29 WX 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

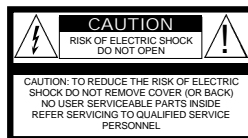
Cobra on the World Wide Web:
Frequently Asked Questions
(FAQ) can be found on-line at:
www.cobraelec.com

How to Use Your Cobra 29 WX NW ST

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Features of This Product

- 7 Weather Channels
- Emergency Weather Alert
- 40 CB Radio Channels
- SoundTracker™ System
- Heavy-Duty Dynamic Microphone
- Full 4 Watts AM RF Power Output
- SWR Calibration Meter
- Instant Channel 19 and 9
- Front Panel 4-Pin Microphone Connector
- Switchable Automatic Noise Limiter & Noise Blanker
- Adjustable Dynamike Boost
- Tactile Controls
- 9 Ft Mic Cord
- Illuminated Front Panel
- Dimmer Control
- RF Gain



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

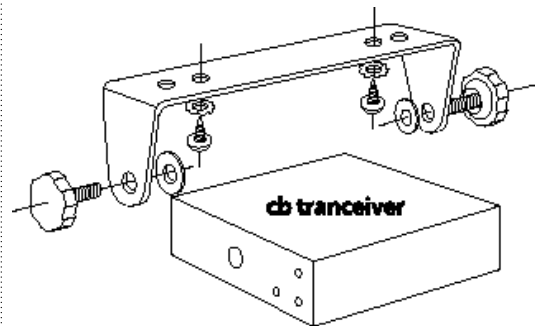
Note

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

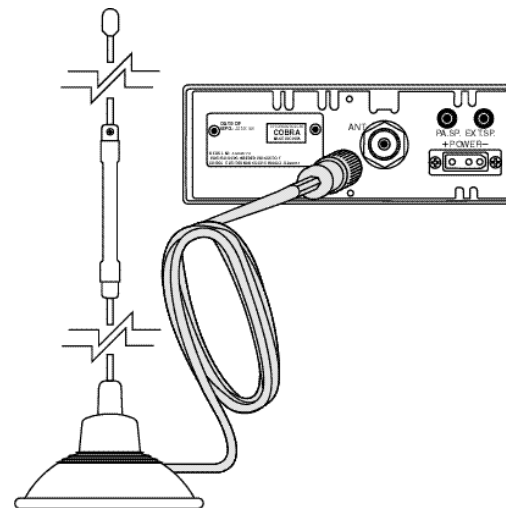
The bracket includes two self-tapping screws and star washers. The mounting must be mechanically strong, conveniently located.

Mounting and Connection

- 1 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

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.

Note

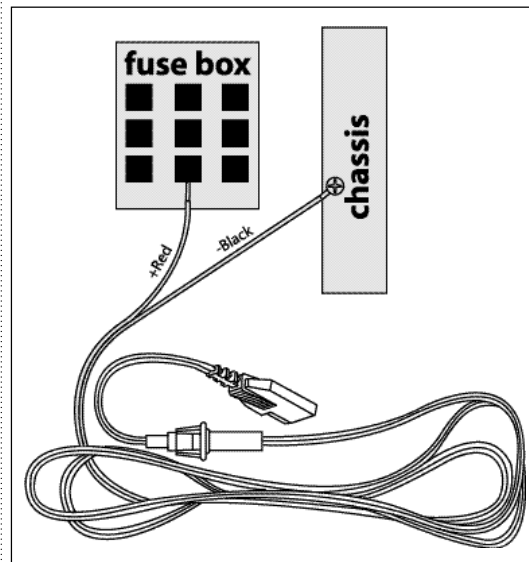
Connecting to an accessory fuse prevents the unit from being left on accidentally, and also permits operating the unit without running the engine.

Note

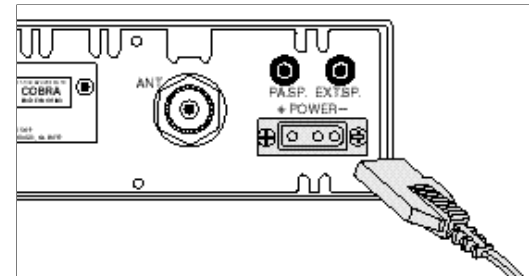
In positive ground vehicles the red wire goes to the chassis and the black wire is connected to the ignition switch.

Note

When connected to an accessory fuse, unit will self test the emergency weather alert automatically when ignition is turned on. Turns itself on & off.

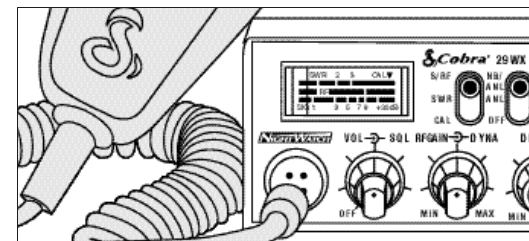
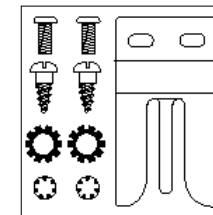


- 4 In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.
- 5 Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.



- 6 Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.

- 7 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.



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

Antennas

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

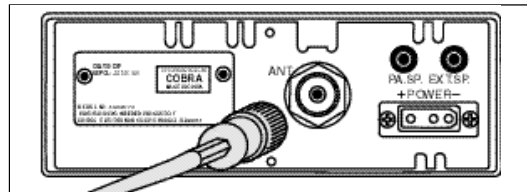
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via a ground strap, if the antenna is mounted on the mirror bracket.

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. **For models with Weather Feature (WX), a Dual Band (Center Load/Base Load) antenna is recommended.** Consult your Cobra dealer for further details, or call 773.889.3087 and speak to a Cobra representative.



- ① 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.

Ignition Noise Interference

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.

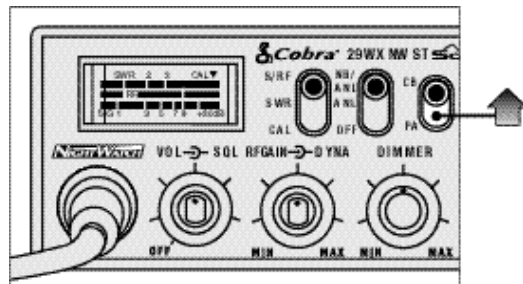
Even though the Cobra 29 WX NW ST has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Many possibilities exist and variations between vehicles require different solutions. Consult your COBRA dealer or a 2-way radio technician for help in locating the source of a severe noise.


Operation

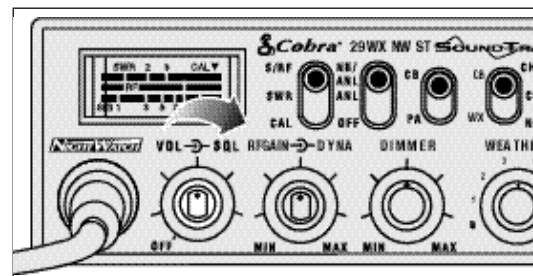
Turning On


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.

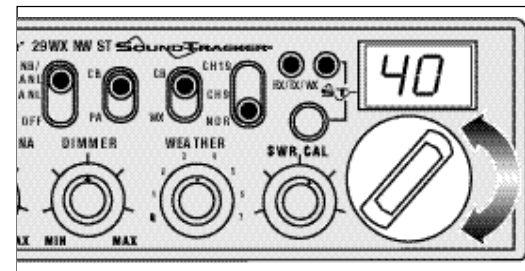



- 2 Rotate the On/Off Volume knob  clockwise to a normal listening level.

Operation

Setting Channel Selector

Setting Channel Selector



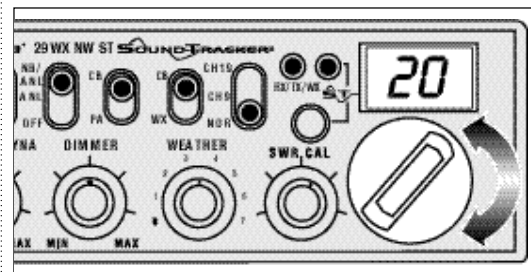
- 1 Select  one of forty channels and adjust volume. The selected channel is indicated by the LED readout directly above the channel selector knob

Operation

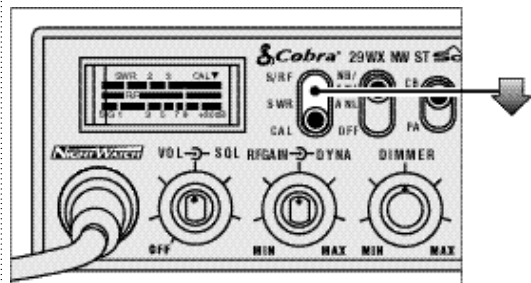
Calibrate For SWR (Standing Wave Ratio)

Calibrate for SWR (Standing Wave Ratio)

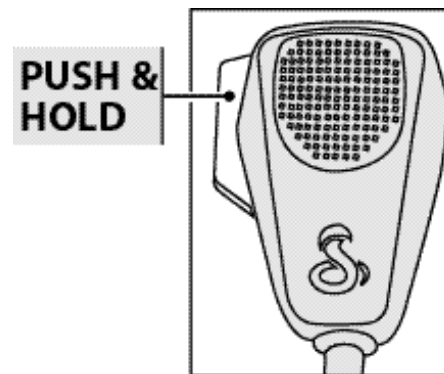
SWR calibration is done to properly adjust the length of the antenna and to monitor the quality of the coaxial cable and all RF connections. This calibration is critical in order to achieve optimum performance.



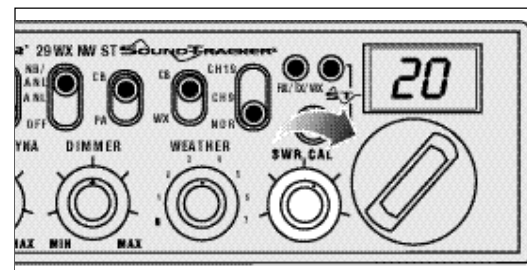
- 1 Select channel 20.



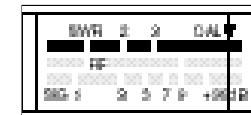
- 2 Switch to the CAL position.



- 3 Push and hold mic button.



- 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).



Operation

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.

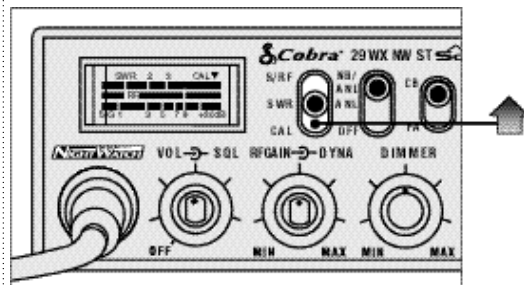
continued

Operation

Note

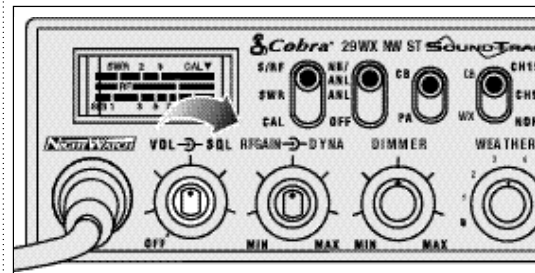
When switched to SWR position the meter needle should ideally be as far to the left as possible. Anything over 3 is not acceptable. A slight antenna height adjustment (higher or lower) may be required. Repeat recalibration steps.

To Receive



- 5 While still holding down the mic button, set the S/R/F SWR CAL switch to the SWR position, to read the SWR reading.
- 6 Repeat the same steps two through five on Channel 1 and 40. This will check SWR for all channels.

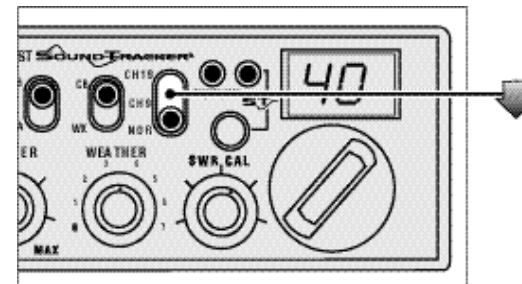
To Receive



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

Operation

Selecting A Channel



- 1 Switch to NOR to select desired channel.

S-Meter

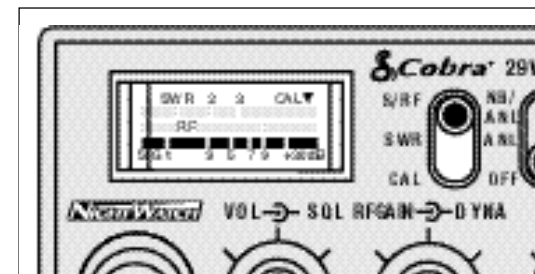
Swings proportionately to strength of incoming signal when receiving.

Selecting A Channel

Note

Switch to 9 (Emergency) or 19 (Information) for instant access to these channels.

S-Meter



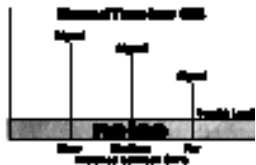
- 1 The S/R/F-SWR-CAL switch must be in the S/R/F position to read the meter.

Operation



Note

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



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

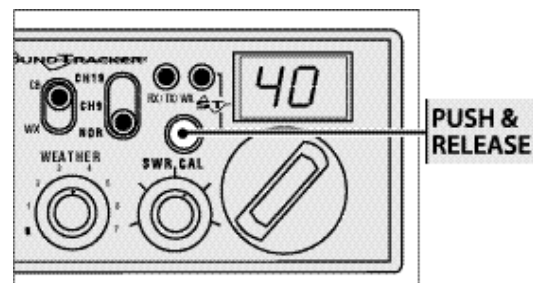
On Reception - "Cuts noise coming in"


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.

Activating SoundTracker™



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

Activating SoundTracker™

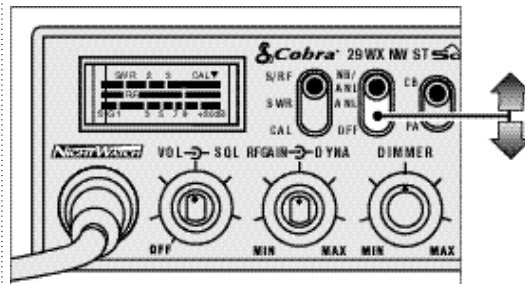
Operation

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.

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



- 1 When switched to **ANL** the Automatic Noise Limiter is activated. This helps reduce noise created by the vehicle's electronics.

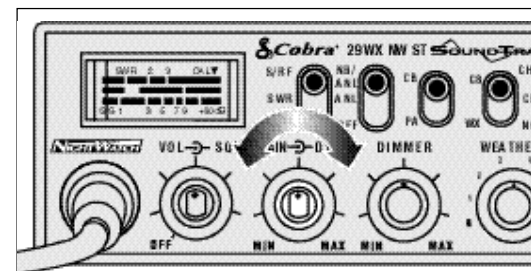
When switched to **NB/ANL** position the RF Noise Blanker is also activated, providing increased noise filtration.

When switched to **OFF** position all noise filtration will be turned off.

Operation

RF Gain Control

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



- 1 Rotate the **RF Gain** knob *counterclockwise* to reduce gain in strong signal areas. In weak signal areas turn *clockwise* to increase gain.

RF Gain Control

Note

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

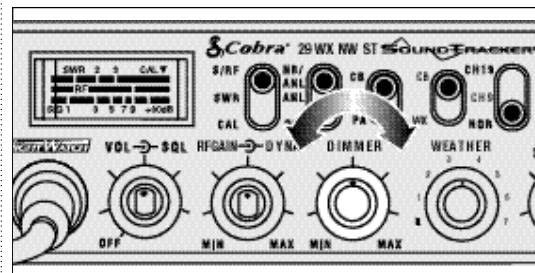
Operation

Dimmer Switch

Note

The Dimmer controls the brightness of the front panel, signal strength meter and channel display.

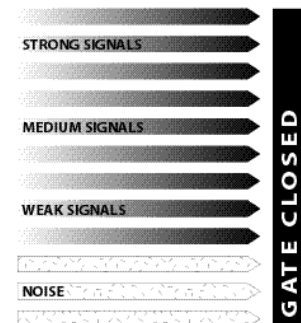
Dimmer Switch



- 1 Rotate the Dimmer knob clockwise for maximum brightness; counter-clockwise for minimum

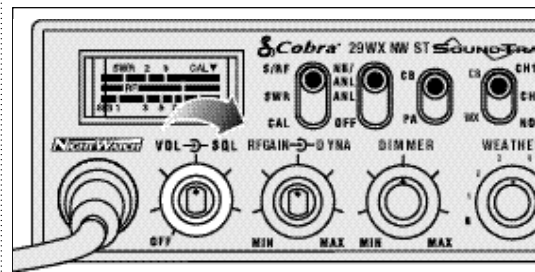
Setting Squelch

Gate closed



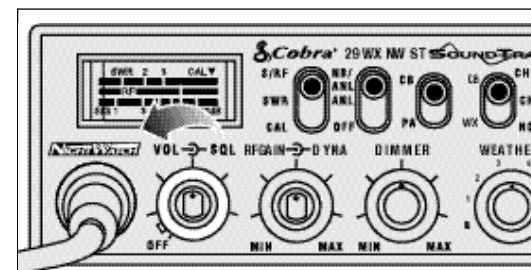
Setting Squelch

Squelch is the "control gate" for incoming signals.

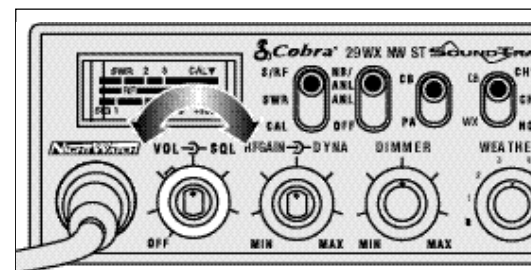


- 1 Full rotation closes the gate allowing only very strong signals to enter.

Operation

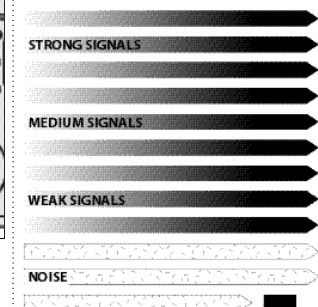


- 2 Full rotation opens the "gate" allowing all signals in.

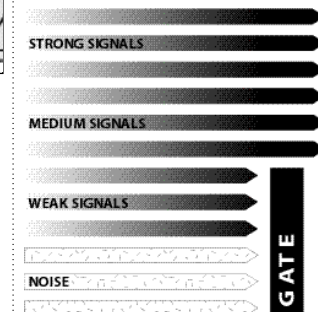


- 3 To achieve the Desired Squelch Setting (DSS), turn the Squelch control until you hear noise. Now turn the control just until the noise stops. This is the DSS setting.

Gate open



Gate set to Desired Squelch Setting (DSS)



Operation

To Transmit



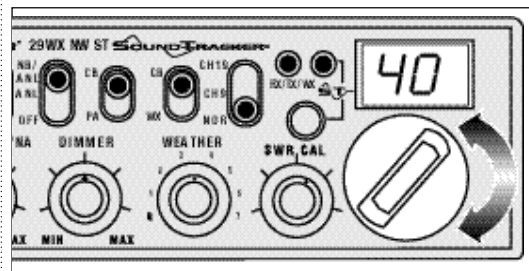
Caution!

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

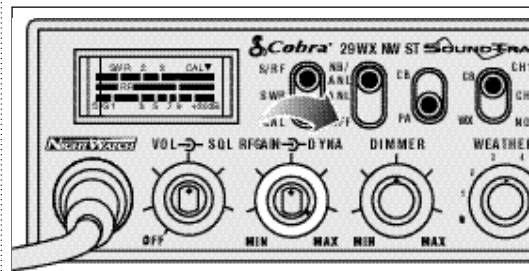
To Transmit



- 1 Select desired channel.

Setting Dynamike

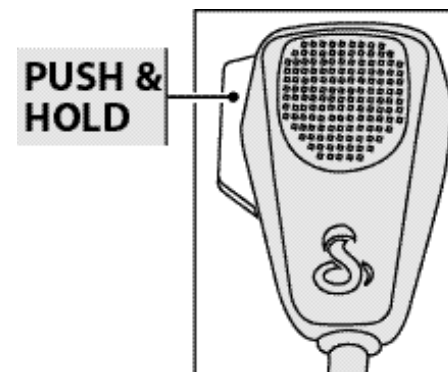
This controls the microphone sensitivity (outgoing audio level).



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

Operation

Transmit



- 1 Push 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.

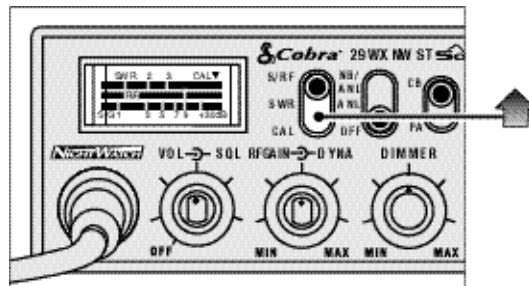
Transmit

Operation

RF Meter

RF Meter

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

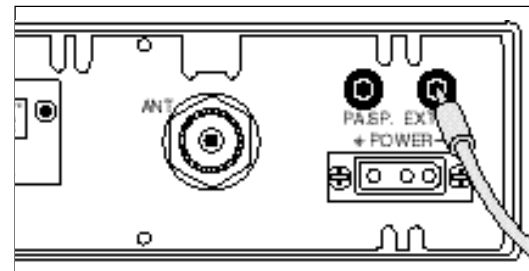


- 1 The S/R F-SW R-CAL switch must be in the S/R F position.

Operation

External Speaker

The external speaker jack is used for remote receiver monitoring.



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

External Speaker

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. See accessory page 39.

Note

Cobra external speakers are rated at 10 watts.

Operation

PA (Public Address)

Note

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

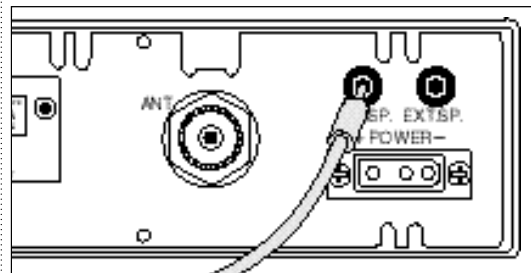
Note

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

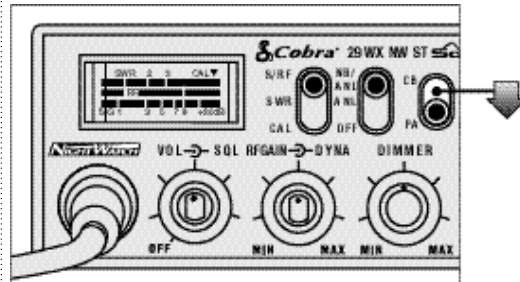
Note

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

PA (Public Address)

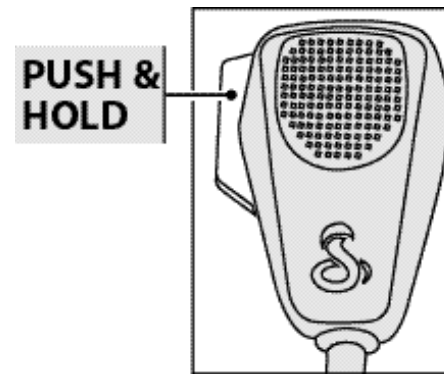


- 1 Connect an external PA speaker to the PA jack on the rear panel.

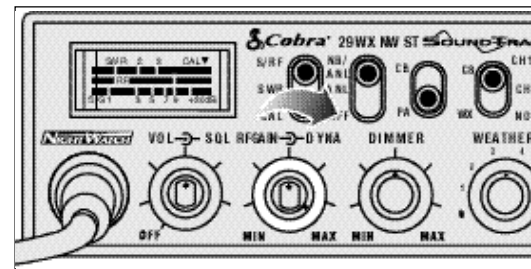


- 2 Set CB/PA switch to PA position.

Operation



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



- 4 Adjust PA speaker volume with the Dynamike control.

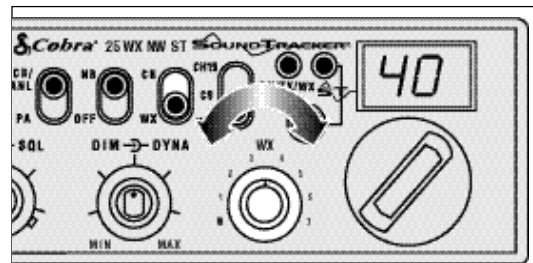
Operation

Weather Radio

What is Weather Radio

NOAA Weather Radio (NWR) is a service of the National Oceanic and Atmospheric Administration (NOAA), of the U.S. Department of Commerce. 380 NWR stations are in operation by the U.S. Government in addition to several NWR stations that are maintained by private interest groups. The capability is to supplement warnings by sirens and by commercial radio and television. The 7 National Weather Channels provide full coverage to keep you informed of weather conditions, 24 hours a day, 7 days a week.

Operating Weather Channel Selector



When CB/WX is on WX position Weather Receiver is activated.

- ① Place CB/WX Switch in the WX position.
- ② Turn the Weather Channel Selector (1-7) until you find the Weather Channel with the clearest reception. Sometimes more than one channel can be received, however, the closest broadcast to you will be the one with the clearest signal.

Operation

Weather Information

Note

For a list of weather frequencies see specification in the Frequency Ranges section on page 32.

If you wish to receive a listing of NOAA Weather Radio Transmitter locations, contact your nearest National Weather.

*Service Office, or write to:
National Weather Service
(Attn:W/OM11) NOAA
Silver Springs, MD 20910.*

For ideal weather reception use a dual band antenna (center load/baseload).

What You Should Know About Weather

If threatening weather is nearby, the National Weather Service may broadcast a 10 second alert tone. This tone will be heard through the CB, even if the CB/WX Switch is in the CB mode or the unit is turned off.

This enables you to monitor CB frequencies and still be warned by the National Weather Service Emergency Alert. When you hear the alert, place the CB/WX switch in the WX position. You will then be able to hear the Weather Warning Broadcast.

You can completely disable the Emergency Weather Alert feature by turning the Weather Channel Selector to the Φ position.

Your 29 WX NW ST has a special auto squelch circuit for weather transmission which disables your squelch control.

If you are using the CB mode, remember to change the CB/WX Switch from CB to WX every so often to make sure you are continually tuned to the clearest/closest weather band channel in case an alert is broadcast.

Home And Office Set-Up

Base Station Operation (From 120V AC House Current)



Warning!

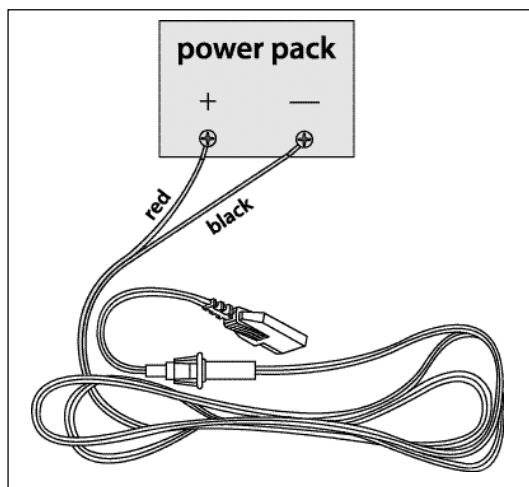
Do not attempt to operate this transceiver by connecting it directly to 120 vac.

Note

For further information call
Cobra Customer Service
1.773.889.3087.

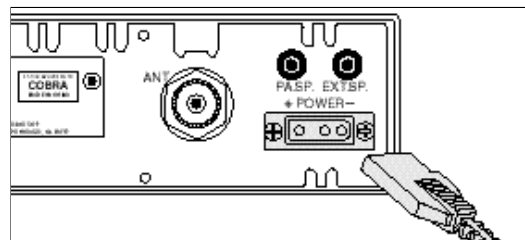
Base Station Operation (From 120V AC House Current)

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.



- 1 Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack.

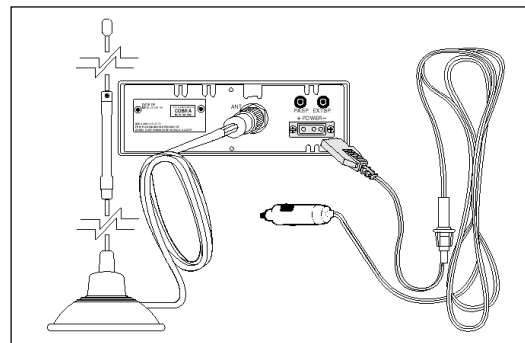
Temporary Mobile Set-Up



- 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.



Temporary Mobile Set-Up

How Your CB Can Serve You

A Few Rules You Should Know

- 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

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

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 | <i>Give details and help needed.</i> |

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

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."

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

The COBRA 29 WX NW ST 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	1	162.400
2	26.975	22	27.225	2	162.425
3	26.985	23	27.255	3	162.450
4	27.005	24	27.235	4	162.475
5	27.015	25	27.245	5	162.500
				6	162.525
				7	162.550
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		

29 WX NW ST Specifications

GENERAL

CHANNELS	CB - 40 CH
FREQUENCY RANGE	CB - 26.965 TO 27.405 MHZ WX - 162.400 TO 162.550 MHZ
FREQUENCY TOLERANCE	0.005 %
FREQUENCY CONTROL	PLL (PHASE LOCK LOOP) SYNTHESIZER
OPERATING TEMPERATURE RANGE	-30° C TO + 50° C
MICROPHONE	PLUG-IN DYNAMIC
INPUT VOLTAGE	13.8VDC nom.(positive or negative ground)
CURRENT DRAIN	TRANSMIT: AM FULL MOD., 1.5A (MAXIMUM) RECEIVE: SQUELCHED, 0.3A; FULL AUDIO OUTPUT, 1.2A (NOMINAL)
SIZE	8-5/8" D X 7-9/32" W X 2-13/63" H
WEIGHT	4 LBS.
ANTENNA CONNECTOR	UHF; SO-239
METER	ILLUMINATED; INDICATES RELATIVE POWER OUTPUT RECEIVED SIGNAL STRENGTH AND VSWR

TRANSMITTER

POWER OUTPUT	4 WATTS
MODULATION	AM (AMPLITUDE MODULATION)
FREQUENCY RESPONSE	300 TO 3000 HZ
OUTPUT IMPEDANCE	50 OHMS, UNBALANCED

RECEIVER

SENSITIVITY	LESS THAN 1 μ V FOR 10 dB(S+N) /N
SELECTIVITY	6 dB @ 7 KHZ, 60 dB @ 10 KHZ
IMAGE REJECTION	80 dB, TYPICAL
ADJACENT-CHANNEL REJECTION	60 dB, TYPICAL
IF FREQUENCIES	DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ
AUTOMATIC GAIN CONTROL (AGC)	LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS
RF GAIN RANGE	40 dB
NOISE BLANKER	RF TYPE
SQUELCH	ADJUSTABLE; THRESHOLD LESS THAN 1 μ V
AUDIO OUTPUT POWER	4 WATTS
FREQUENCY RESPONSE	300 TO 3000 HZ
DISTORTION	LESS THAN 7% @ 3 WATTS @ 1000 HZ
BUILT-IN SPEAKER	8 OHMS, 5W
EXTERNAL SPEAKER (NOT SUPPLIED)	8 OHMS; DISABLES INTERNAL SPEAKER WHEN CONNECTED

PA SYSTEM

POWER OUTPUT	4 WATTS INTO EXTERNAL SPEAKER
EXTERNAL SPEAKER FOR PA	8 OHMS 4 WATTS MIN.
(NOT SUPPLIED)	THE PA SPEAKER ALSO MONITORS THE RECEIVER; SEPARATE JACK PROVIDED

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

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.

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.

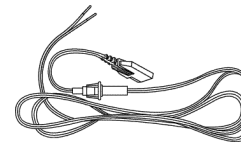
Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.



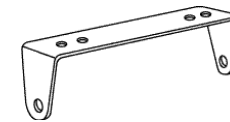
Cobra Electronics Corporation

6500 West Cortland Street
Chicago, Illinois 60707

Optional Accessories



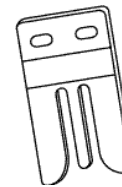
Replacement DC Power Cord
For in vehicle use
426-002-N-001 \$7.50



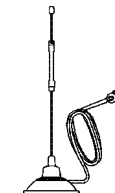
Replacement Mounting Bracket
For in vehicle use
251-353-9-001 \$4.50



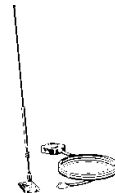
Replacement Thumb Screws
For in vehicle use
634-081-9-001 \$0.60



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



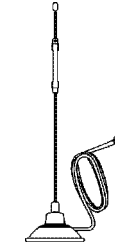
28" Full Range Center Load, Magnetic Mount Antenna
For in vehicle use
AT 35 \$19.95



25" Glass Mount Antenna
For in vehicle use
AT 55 \$27.95



39" Full Range Base Load, Magnetic Mount Antenna
For in vehicle use
AT 70 \$24.95



44" Full Range, Center Load, Dual Band CB/WX NW Antenna
Allows greater transmission range while in a moving vehicle.
ATW-400 \$27.95



Replacement Dynamic Microphone
For in vehicle use
CA 73 \$12.95

Optional Accessories



Power Microphone
For in vehicle use
CA 75

\$21.95



Noise Canceling/Power Microphone
For in vehicle use
CA 77

\$24.95



Echo/Noise Canceling Microphone
For in vehicle use
CA 79

\$59.95



Dynamic External Speaker
For in vehicle use
CS 100

\$14.95



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

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.

Shipping & Handling

Amount of Order	Shipping/Handling
\$25.00 and under	\$4.75 minimum
\$25.01-\$40.00	\$6.95
\$40.01-\$80.00	\$9.25
\$80.01-\$120.00	\$10.25
\$120.01-\$160.00	\$11.75
\$160.01 and up	\$14.50

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

Accessory Order Form

Item #	Description	Cost Ea.	Qty.	Amount
426-002-N-001	Replacement DC Power Cord	\$7.50		
251-353-9-001	Replacement Mounting Bracket	\$4.50		
634-081-9-001	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 NW 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		

Prices subject to change without notice.

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 %
Ohio residents add 6%
Wisconsin residents add 5%

Subtotal

(Tax if applicable)

Shipping/handling

Total

For credit card orders fill out order for m 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.



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