

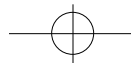
How to Use Your Cobra 19 DX III

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Features of This Product

- 40 CB Radio Channels
- Instant Channel 9/NOR
- PA System
- Compact Size
- Dynamic Microphone
- 9 Foot Mic Cord
- Front Panel Microphone Connector



Installation

Mounting and Connections

Note

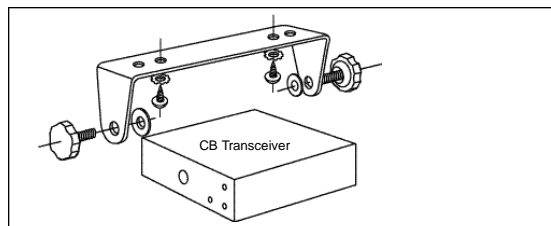
The transceiver is held in the universal mounting bracket by two thumb screws, permitting adjustment at the most convenient angle.

A universal mounting bracket is supplied along with self tapping screws and star washers. To mount the transceiver:

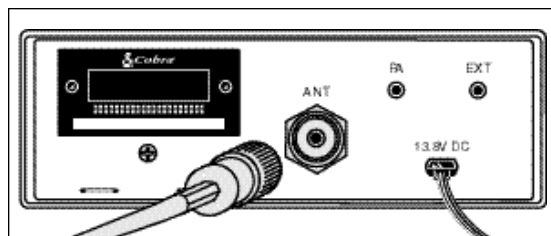
Mounting and Connections

Select a location for the transceiver and microphone bracket that is convenient for operation. In automobiles, the transceiver is usually mounted to the underneath of the dash panel, with the microphone bracket beside it.

- 1 Hold the radio with mounting bracket in the exact location desired. Remove the mounting bracket and use it as a template to mark the location for the mounting screws.

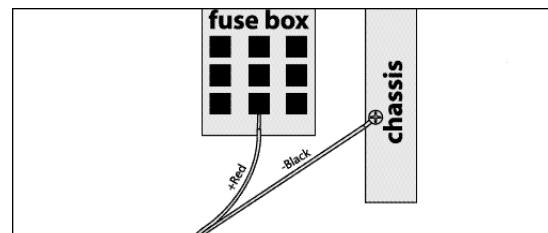


- 2 Drill necessary holes and secure mounting bracket in location.
- 3 Connect the antenna cable plug to the receptacle marked "ANT" on the back of the unit.

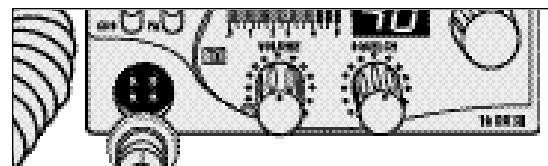


2

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



- 6 Mount the microphone bracket on right side of the transceiver or near it using two screws supplied. When mounting in an automobile, place the bracket under the dash so the microphone is readily accessible.
- 7 Attach the 4-pin microphone cable to receptacle on front of unit and install unit in bracket securely.



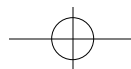
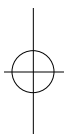
Installation

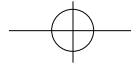
Mounting and Connections

Note

Before installing the CB radio, visually check the vehicle battery connections to determine which battery terminal, positive or negative (positive is the larger of the two) is grounded to the engine block (or chassis).

3





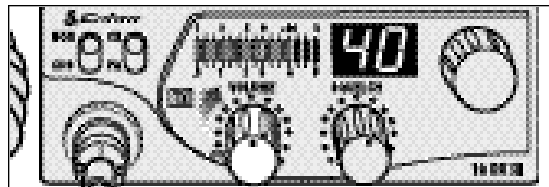
Operation

Operation

Turning on Your Radio

Turning on

Turn volume control clockwise to turn power on and set the desired listening volume.



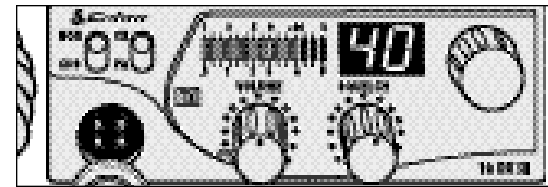
Microphone Connector

Allows for convenient removal of the microphone plug when storage is required. The microphone MUST be connected to the unit at all times when in use, for proper operation.

Microphone Connector



Squelch



Squelch

This control is used to cut off or eliminate receiver background noise in the absence of an incoming signal. Adjust until the receiver noise disappears. This will require the incoming signal to be slightly stronger than average receiver noise. Further clockwise rotation will increase the threshold level which a signal must overcome in order to be heard. Only strong signals will be heard at a maximum clockwise setting.

CB Antenna

Note

Cobra loaded-type antenna models HGA 1000, HGA 1500, and HGA 2000 are highly recommended for most installations. Consult your Cobra dealer for further details (or see order form at the back of this book).

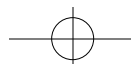
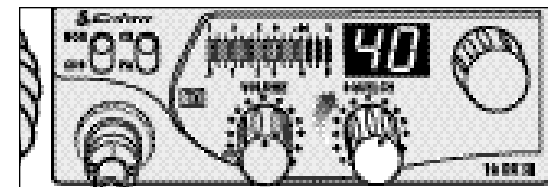
3-Way Combination Antennas are available which allow operation of all three bands (AM-FM & CB), using a single antenna. However, use of this type of antenna usually results in less than normal transmit and receive range when compared to a standard-type "Single Band" antenna designed for CB only.

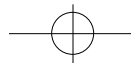
CB Antenna

Only a properly matched antenna system will allow maximum power output.

In mobile installations (cars, trucks, boats, etc.), an antenna system that is non-directional should be used.

When installed in a boat, the transceiver will not operate at maximum efficiency without a ground plate unless the vessel has a steel hull. Before installing the transceiver in a boat, consult your dealer for information regarding an adequate grounding system.



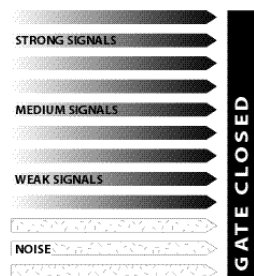


Operation

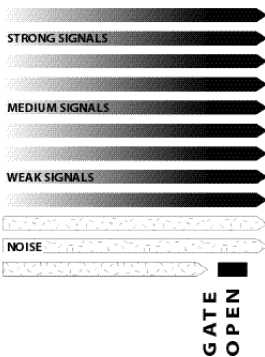
Operation

Setting Squelch

Gate closed



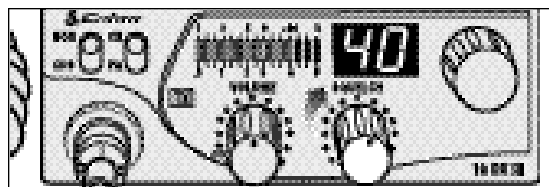
Gate open



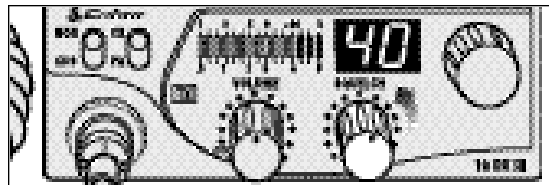
Setting Squelch

Squelch is the "control gate" for incoming signals.

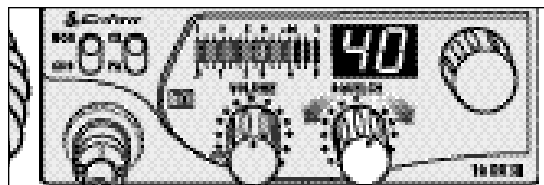
1. Full *clockwise* rotation closes the gate allowing only very strong signals to enter.



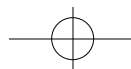
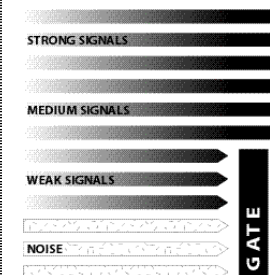
2. Full *counterclockwise* rotation opens the "gate" allowing all signals in.

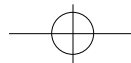


3. To achieve the Desired Squelch Setting (DSS), turn the Squelch control *counterclockwise* until you hear noise. Now turn the control *clockwise* just until the noise stops. This is the DSS setting.



Gate set to Desired Squelch Setting (DSS)





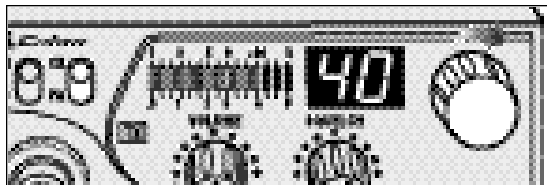
Operation

Operation

Channel Selection

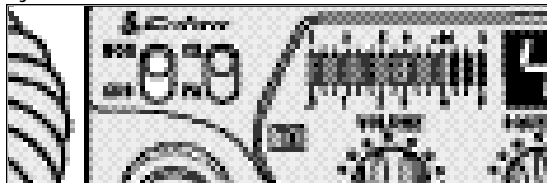
Selecting a Channel

Rotate channel knob clockwise until desired channel is displayed.



Channel 9/NOR

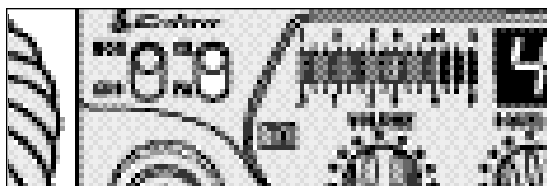
Set CH 9 to obtain instant access emergency channel. In NOR position, all 40 CB channels are selected by the channel button.



Channel 9/ NOR

CB/PA

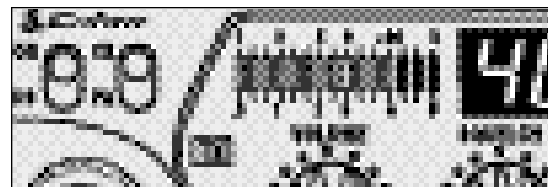
In the CB position, the PA function is disabled and the unit will transmit and receive on the selected channel. The PA function should not be used unless a PA speaker is connected.



CB/PA

S/RF Power Meter

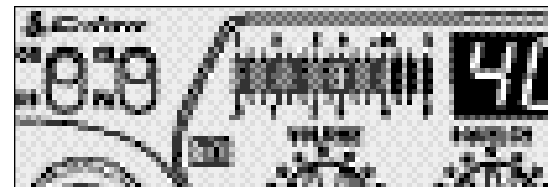
Shows relative transmitter RF output power and input signal strength when receiving. The LED (Light Emitting Diode) segments glow green to amber to red...this indicates receive or transmit activity.



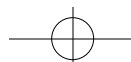
S/RF PowerMeter

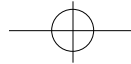
TX Indicator LED

The indicator will light red when in the transmit mode.



TX Indicator LED



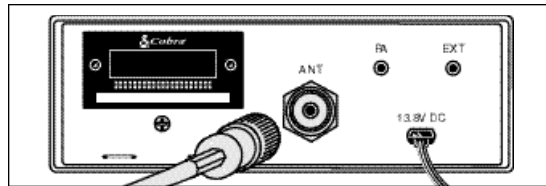


Operation

Antenna Connector

Rear Panel

Antenna Connector. This female connector permits connection of the transmission line cable male connector to the transceiver.



External Speaker. The External Speaker Jack is used for an external speaker. 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.

Power: These wires supply power to the CB radio. This cable is permanently attached to the radio. If you wish to remove the radio after installation, disconnect at fuse holder and ground connector.

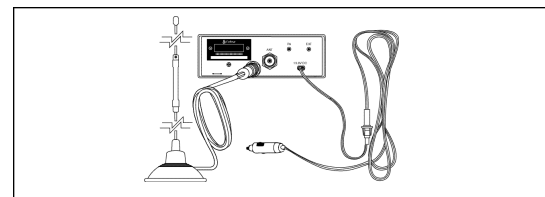
Public Address: An external PA speaker may be connected to the PA speaker jack when used as a public address system. The speaker should be directed away from the microphone to prevent acoustic feed-back. Physical separation or isolation of the microphone and speaker must be employed when operating the PA at high output levels.

Ignition Noise Interference

Use of a mobile receiver at low signal levels is normally limited by the presence of electrical noise. Under most operating conditions, 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 vehicle engine turned off. The unit requires very little current and therefore will not significantly discharge the vehicle battery. Even though this radio has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Consult your COBRA dealer or a 2-way radio technician for help in locating and correcting the source of severe noise.

Temporary Mobile Operation

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



Operation

Ignition Noise Interference

Note

When using the unit with cigarette adapter, turn off when not in use to avoid draining the battery.

Temporary Mobile Operation

Note

Red wire is connected to positive side of socket center tip. Black wire is connected to negative side contacts.

Note

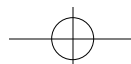
Radio resets to CH 9 when connected to cigarette lighter plu...

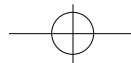
External Speaker

Note

Cobra external speakers are rated 15 watts

Power





Operation

Maintenance

Operating Procedure to Receive

1. Be sure that power cord, antenna and microphone are connected to the proper connectors before proceeding further. The CB/PA switch should be in the "CB" position.
2. Turn the radio ON by rotating the VOLUME CONTROL clockwise.
3. Rotate SQUELCH CONTROL counterclockwise until incoming signal is heard.
4. Select the desired channel.
5. Set VOLUME CONTROL to a comfortable listening level.

Operating Procedure to Transmit

1. Select the desired channel.
2. The receiver and transmitter are controlled by the press-to-talk switch on the microphone. Press the switch and the transmitter is activated; release switch to receive. When transmitting (on a clear channel), hold the microphone two inches from the mouth and speak clearly in a normal voice.

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.

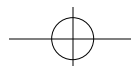
Maintenance and Adjustment

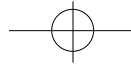
Your COBRA CB transceiver is specifically designed for the environment encountered in mobile installations. The use of all solid state circuitry and its light weight result in high reliability. Should a failure occur, however, review the following, then if necessary, replace parts only with identical parts. Do not substitute.

1. Check connections to the source of power and make sure it is the 13.8 VDC required to operate your radio.
2. Check the fuses in the DC power cord. The main power lead (red) has a 2 amp 3AG type fuse in its holder. Use only the above specified type and size fuse for maximum protection. Failure to do so will void the warranty.
3. **Make certain the microphone is properly plugged in.**
4. Make certain the antenna is properly assembled and connected.

If you are unable to correct the problem, refer to the SERVICE INSTRUCTIONS at the end of this manual for the correct procedure for warranty and post-warranty service from COBRA.

Maintenance/ Adjustment





Warning Frequency Ranges

Warning

Frequency Ranges

Replacement Warning

Replacement or substitution of certain parts with replacements other than those recommended by Cobra may be a violation of the technical regulations of Part 95 of the FCC rules, or of Type Acceptance requirements of Part 2 of said rules.

When making adjustments, be sure to re-read applicable portions of this instruction manual to make certain you are following correct procedure and that the radio was properly installed, etc.

A Few Rules That Should Be Obeyed

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 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.

Use Channel 9 For Emergency Messages Only

The 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: "A tornado sighted six miles of town."

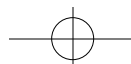
Not Permitted: "This is observation post number 10. No tornado sighted."

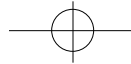
The Cobra 19 DX III transceiver represents one of the most advanced AM two-way radios used as a Class D station in the Citizens Radio Service. This unit features advanced Phase Lock Loop (PLL) circuitry providing complete coverage of all 40 CB channels.

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

A Few Rules You Should Know

Channel 9 Emergency Messages



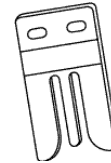


Specifications

Accessories

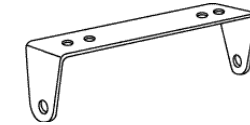
Specifications

GENERAL	
CHANNELS	CB - 40 CH
FREQUENCY RANGE	CB - 26.965 TO 27.405 MHZ
FREQUENCY TOLERANCE	0.005 %
FREQUENCY CONTROL	PLL (PHASE LOCK LOOP) SYNTHESIZER
OPERATING TEMPERATURE RANGE	-30° C TO + 65° C
MICROPHONE	PLUG-IN DYNAMIC
INPUT VOLTAGE	13.8VDC nom.(negative ground)
CURRENT DRAIN	TRANSMIT: AM FULL MOD., 1.4A (MAXIMUM) RECEIVE: SQUELCHED, 0.9 A; FULL AUDIO OUTPUT, 1.2A (NOMINAL)
SIZE	6-7/8"D X 6-3/4"W X 1-7/8"H
WEIGHT	3.25 LBS.
ANTENNA CONNECTOR	UHF; SO-239
METER	LED INDICATES RELATIVE POWER OUTPUT AND RECEIVED SIGNAL STRENGTH
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 µV FOR 10dB (S+N)
SELECTIVITY	6 dB @ 7 KHZ, 60 DB @ 10KHZ
IMAGE REJECTION	60 dB, TYPICAL
ADJACENT-CHANNEL REJECTION	50 dB, TYPICAL
ATOMATIC NOISE LIMITER	BUILT-IN



Replacement Microphone Bracket

741-080-9-001 \$0.45



Replacement Mounting Bracket

251-199-9-001 \$4.50



Replacement Thumb Screws

634-081-9-001 \$0.61



4 Pin Premium Noise-Cancelling Microphone

HG M84 \$74.95



4 Pin Premium Noise-Cancelling Microphone Wood Grain

HG M84W \$74.95



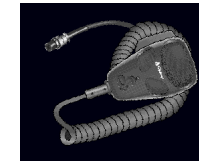
5 Pin Premium Noise-Cancelling Microphone

HG M85 \$74.95



4 Pin Replacement Dynamic Microphone

HG M73 \$19.95



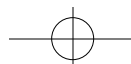
4 Pin Noise Canceling Microphone

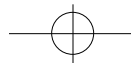
HG M77 \$30.95



4 Pin Power Microphone

HG M75 \$25.95





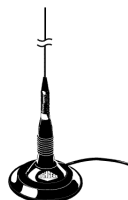
Accessories

Accessory Order Form



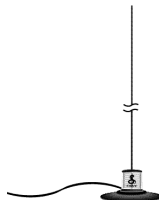
21" Base Loaded Magnet Mount Antenna

HG A1000 \$28.95



38" Base Loaded Magnet Mount Antenna

HG A1500 \$46.95



54" Base Loaded Magnet Mount Antenna

HG A2000 \$99.95



Dynamic External Speaker

HG S100 \$21.95



Noise Canceling External Speaker

HG S300 \$28.95



Noise Canceling With Talk Back External Speaker

HG S500 \$32.95

Fiberglass Whip Replacement Antenna

3 Foot HG A300 \$28.95

Black, Red, White, Gold

4 Foot HG A400 \$29.95

Black, Red, White, Gold

4 1/2 Foot HG A450 \$30.95

Black, Red, White, Gold

62" Center-Load Replacement Antenna

HG A6000 \$89.95

Black/Clear, Black, Red, White, Gold

Shipping & Handling

Amount of Order	Shipping/Handling
\$25.00 and under	\$4.75 minimum
\$25.01-\$40.00	\$6.95
\$40.01-\$80.00	\$9.00
\$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.

Item #	Description	Cost Ea.	Qty.	Amo
251-199-9-001	Replacement Mounting Bracket	\$4.50		
634-081-9-001	Replacement Thumb Screws	\$0.60		
741-080-9-001	Replacement Microphone Bracket	\$0.45		
HG A1000	21" Base Loaded Magnetic Mount Antenna	\$28.95		
HG A1500	38" Base Loaded Magnetic Mount Antenna	\$46.95		
HG A2000	54" Base Loaded Magnetic Mount Antenna	\$99.95		
HG M84	4 Pin Premium Noise-Cancelling Microphone	\$74.95		
HG M84W	4 Pin Premium Noise-Cancelling Mic Wood gr	\$74.95		
HG M85	5 Pin Premium Noise-Cancelling Microphone	\$74.95		
HG M73	Replacement Dynamic Microphone	\$19.95		
HG M75	4 Pin Power Microphone	\$25.95		
HG M77	Noise Canceling Microphone	\$30.95		
HG S100	Dynamic External Speaker	\$21.95		
HG S300	Noise Canceling External Speaker	\$28.95		
HG S500	Noise Canceling With Talk Back External Speaker	\$32.95		
HG A300	Fiberglass Whip Replacement Antenna Black, Red, White, Gold	\$28.95		
HG A400	Fiberglass Whip Replacement Antenna Black, Red, White, Gold	\$29.95		
HG A450	Fiberglass Whip Replacement Antenna Black, Red, White, Gold	\$30.95		
HG A6000	62" Center-Load Replacement Antenna Black/Clear, Black, Red, White, Gold	\$89.95		

Prices subject to change without notice. Subtotal _____

Tax Table	(Tax if applicable) _____
Illinois residents add 7%	Michigan residents add 4%
Cook Co. residents add .75% (7.75% total)	Ohio residents add 6%
Chicago residents add 1% (8.75% total)	Wisconsin residents add 5%
Indiana residents add 5%	
	Total _____

Please print clearly

Name _____

Address (No P.O. Box) _____

City _____ State _____

Zip _____ Telephone (____) _____

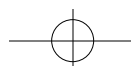
Credit Card No. _____ Exp. Date _____

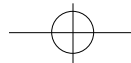
Customer Signature _____

Circle One: Visa MasterCard Discover

For credit card orders fill out order form and fax to: 1.773.622.2269 or call 1.773.889.3087 (Press 1 from the main menu)

8:00 am - 6:00 pm, M-F, CST.
Make check or money order (no stamps) payable to:
Cobra Accessories Dept.
6500 West Cortland St. Chicago, IL 60707





Limited Two Year Warranty



Cobra Electronics Corporation
6500 West Cortland Street
Chicago, Illinois 60707

Limited Warranty

COBRA ELECTRONICS CORPORATION warrants that its COBRA CB Transceiver, and the component parts thereof, will be free of defects in material and workmanship for a period of two (2) years from the date of 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, a defective CB Transceiver upon delivery to the COBRA factory Service Department, accompanied by proof of the date of first consumer purchase, such a duplicated sales receipt.

You must pay 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.

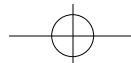
COBRA shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation.

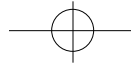
Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

The Cobra line of quality products also includes:

- High Gear™ Accessories
- Radar Detectors
- SafetyAlert™ Traffic Warning Systems
- Family Radio Service (FRS) 2-Way Radios

Nothing comes close to a Cobra™





19 DX III

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 - 6:00 pm, Monday through Friday, Central Standard Time.

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

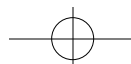
1. For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon of a sales receipt. If you send the original receipt it cannot be returned.
2. Send the entire product.
3. Enclose a description of what is happening with the unit. Include a typed or clearly print 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.

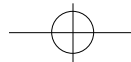
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Part No. 480-316-P-001

Operating Instructions for your **Cobra® 19 DX III** Mobile Radio

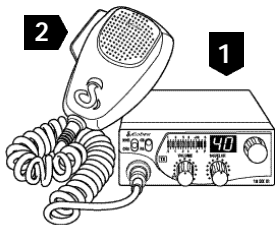


"Ingenious Products for Easier Communication."





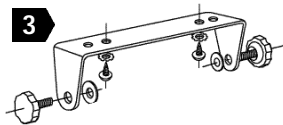
The Citizens Band Story



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.)

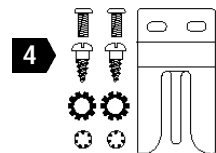
FCC Regulations

FCC regulations permit only "transmissions" (one-party to another) rather than "broadcast" (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.



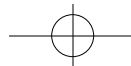
Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra, may cause violation of the technical regulations of Part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules.

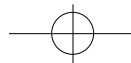
You should read and understand Part 95 (included with this unit) of the FCC Rules and Regulations, before operating your Cobra radio, even though the FCC no longer requires you to obtain an operator's license.



What's included with your CB Radio:

- 1. CB transceiver
- 2. Microphone
- 3. Transceiver bracket
- 4. Microphone bracket
- 5. Operating Manual
- 6. FCC rules (not pictured)





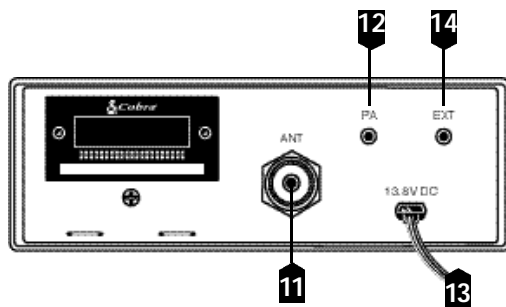
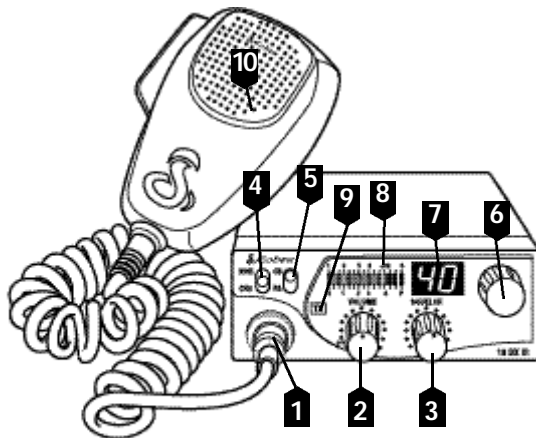
Controls and Indicators

Our Thanks to You

- 1. Microphone Connector.
- 2. Off/On/Volume.
- 3. Squelch.
- 4. Channel 9/NOR
- 5. CB/PA
- 6. Channel Selector Button.
- 7. LED Channel Display.
- 8. S/RF Power Meter.
- 9. TX Indicator LED.
- 10. Microphone

Back Side

- 11. Antenna Connector
- 12. Public Address
- 13. Power Cord
- 14. External Speaker Connector



Thank you for purchasing the Cobra 19 DX III CB Radio Transceiver. Properly used, this Cobra product will give you many years of reliable service.

Customer Support

Should you encounter any problems with this 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 – 6:00 pm
Central Standard Time at
773.889.3087

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

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

