



Cobra® 29 LTD BT

The CB Story

Cobra Electronics Corporation
6500 West Cortland Street
Chicago, IL 60707 USA

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 at 773-889-3087
8:00 am - 6:00 pm, Monday through Friday, Central Time.

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

If you think you need service call 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 West Cortland Street, Chicago, IL 60707 USA.
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 773-889-3087 for assistance.

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The Bluetooth® word mark and logo are registered trademarks owned by Bluetooth SIG, Inc.

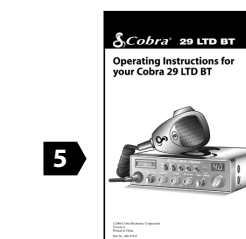
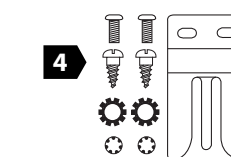
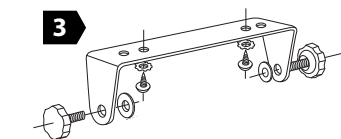
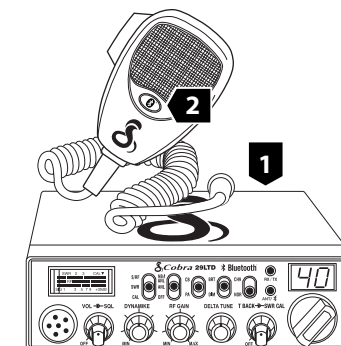
Operating Instructions for your Cobra 29 LTD BT



Patent Pending

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Version A
Printed in China

Part No. 480-455-P



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 LTD BT

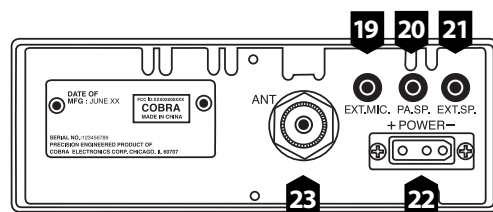
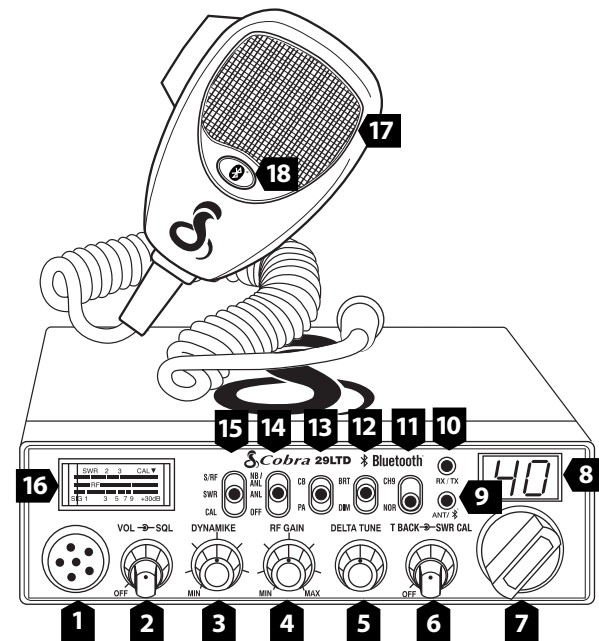
- | | |
|--------------------------------------|------------------------------|
| 1. CB transceiver | 5. Operating manual |
| 2. Microphone with Bluetooth® Button | 6. DC power cord (not shown) |
| 3. Transceiver bracket | 7. FCC rules (not shown) |
| 4. Microphone bracket | |

Controls and Indicators

1. 6-Pin Microphone Connector
2. Power On/Off/Volume/ Squelch Control
3. Dynamike®
4. RF Gain
5. Delta-Tune
6. SWR CAL / Talk Back
7. Channel Selector
8. LED Channel Display
9. ANT Indicator and Bluetooth® LED Indicator
10. RX (Receive)/ TX (Transmit) LED Indicator
11. Channel 9/ Normal Switch
12. Dimmer Switch
13. CB/PA Switch
14. NB/ANL ANL Off Switch
15. S/RF SWR CAL Switch
16. Signal Strength Meter
17. Microphone
18. Bluetooth Button

Back Side

19. External Bluetooth Microphone Jack
20. Public Address Speaker Jack
21. External Speaker Jack
22. Power Jack
23. Antenna Connector



Thank you for purchasing the Cobra 29 LTD BT Radio. Properly used, this Cobra product will give you many years of reliable service.

Customer Support

Should you encounter any problems with the product or not understand its many features, please refer to this owner's manual. If, after referring to the manual, you still need help, call Cobra Customer Service at 773-889-3087.

Our Thanks to You

Cobra Customer Service

Live operators are available
M-F 8:00 am - 6:00 pm Central
Time at: 773-889-3087

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

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

Accessory Order Info

Ordering From U.S.A.

Call 773-889-3087 for pricing or visit www.cobra.com.

For Credit Card Orders

Call 773-889-3087 [Press one from the main menu] 8:00 a.m. to 6:00 p.m. Central Time, Monday through Friday.

Make Check or Money Order Payable To

Cobra Electronics, Attn: Accessories Dept.,
6500 West Cortland Street, Chicago, IL 60707 U.S.A.

To Order Online

Please visit our website: www.cobra.com

Item #	Description
426-002-N-001	Replacement DC Power Cord
251-353-9-001	Replacement Mounting Bracket
634-081-9-001	Replacement Thumb Screws
741-080-9-001	Replacement Microphone Bracket
HG A1000	21" Base Loaded, Magnetic Mount Antenna
HG A1500	38" Base Loaded Magnetic Mount Antenna
MNA MIC	External Bluetooth Microphone

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Features of This Product

- 40 CB Radio Channels
- Heavy-Duty Noise Canceling Microphone
- Full 4 Watts AM RF Power Output
- SWR Calibration Meter
- Talk Back
- Instant Channel 9
- Allows use of Bluetooth® enabled cell phone through CB
- 6-Pin Front Mount Microphone Connector
- Delta -Tune
- Switchable Automatic Noise Limiter & Noise Blanker
- Adjustable Dynamike® Boost
- 9 Ft. Mic Cord
- RF Gain

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

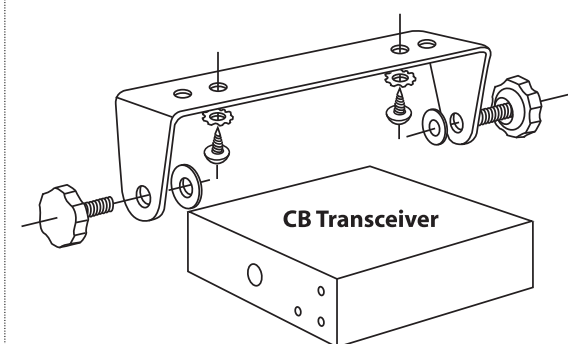
Note

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.

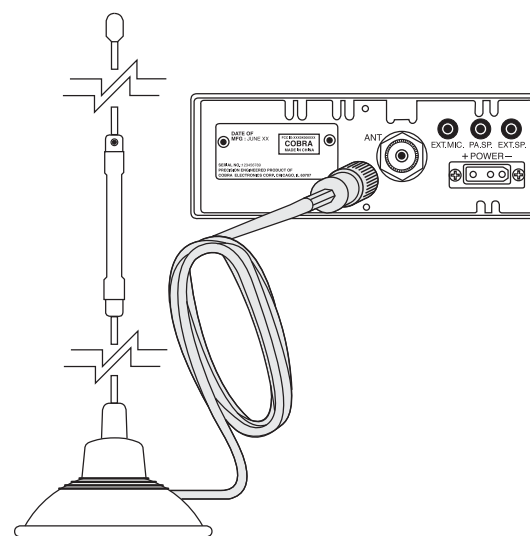
Mounting and Connection

- 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.

Installation



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

continued

Installation

Note

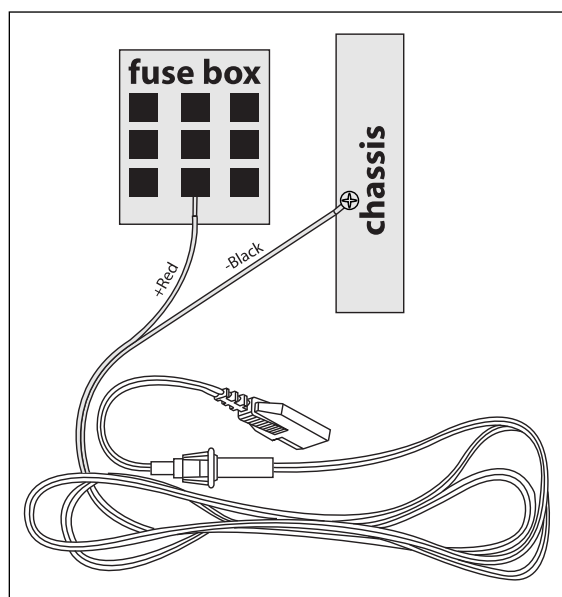
Connecting to an accessory fuse prevents the unit from being left on accidentally, and also permits operating the unit without running the engine.

Note

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

Note

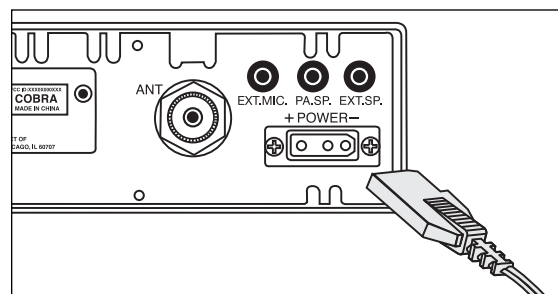
Before installing the CB radio, visually check the vehicle's battery connection to determine which terminal, positive or negative, is grounded (positive is the larger of the two) to the engine block (or chassis). A negatively grounded vehicle has its negative lead grounded to the chassis.



- 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.

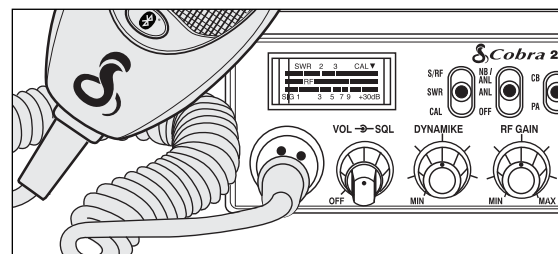
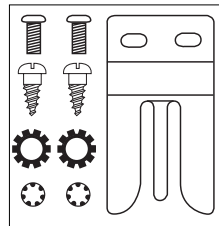
4

Installation



- 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 6-pin microphone cable to receptacle, on the front of unit and install unit on bracket securely.

5

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

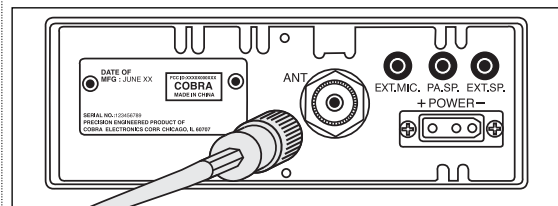
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via a ground strap when antenna is mounted on the mirror bracket.

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. Consult your Cobra dealer for further details, or call 773-889-3087 and speak to a Cobra representative.



- ❶ 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.

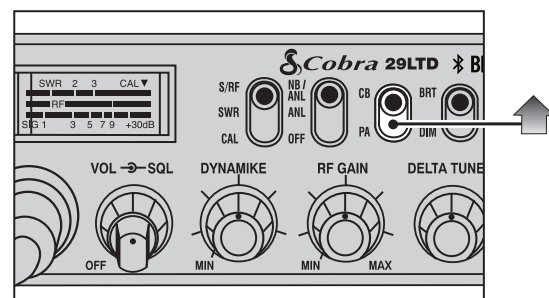
Even though the Cobra 29 LTD BT has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Many possibilities exist and variations between vehicles require different solutions. Consult your COBRA dealer or a 2-way radio technician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


Operation

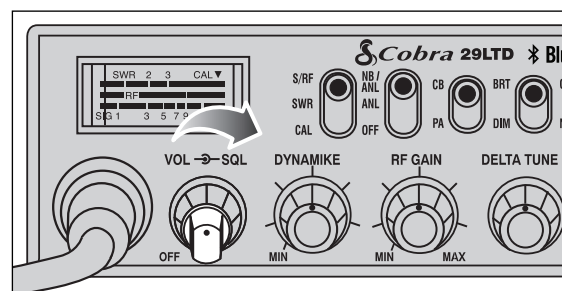
Turning On


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.

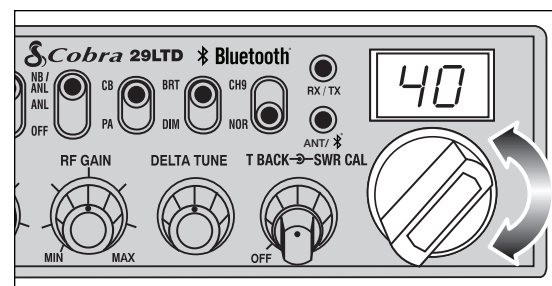



- 2 Rotate the On/Off Volume knob  clockwise to a normal listening level.

Operation

Setting Channel Selector

Setting Channel Selector



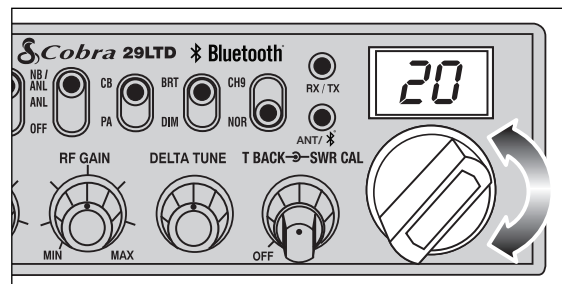
- 1 Select  one of forty channels and adjust volume. The selected channel is indicated by the LED readout directly above the channel selector knob

Operation

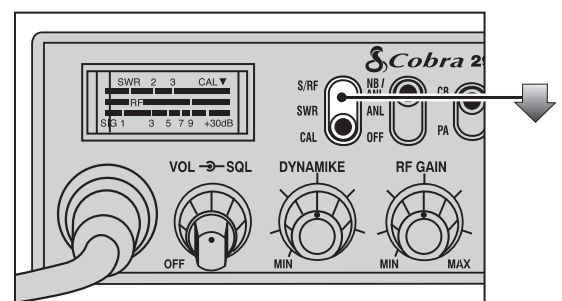
Calibrate For SWR (Standing Wave Ratio)

Note
Antenna Indicator LED will illuminate when TX if SWR is high.

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.

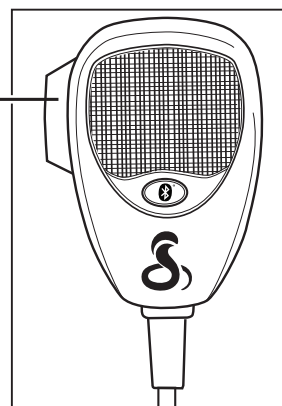


1 Select channel 20.

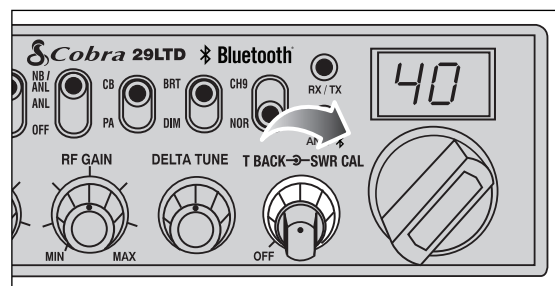


2 Switch to the CAL position.

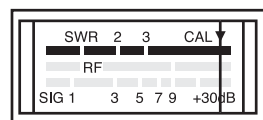
PUSH & HOLD



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).

continued

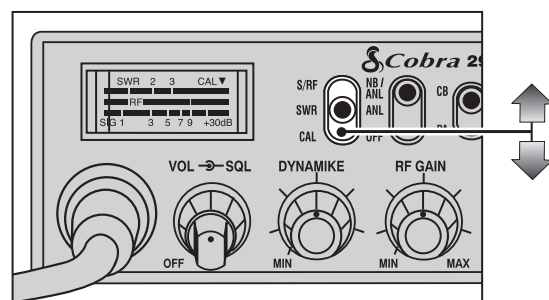
Operation

Note

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

Note

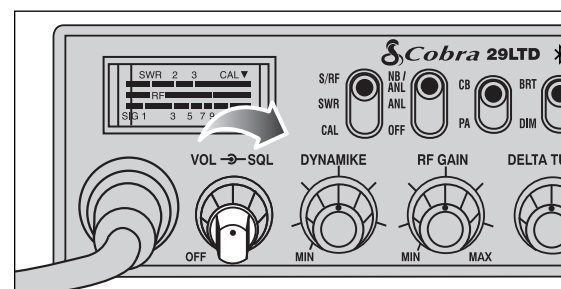
When switched to SWR position the meter needle should ideally be as far to the left as possible. Anything over 3 is not acceptable. The antenna indicator will light. A slight antenna height adjustment (higher or lower) may be required. Repeat calibration steps.



- 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.

Operation

To Receive



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

Operation

Bluetooth®

Note

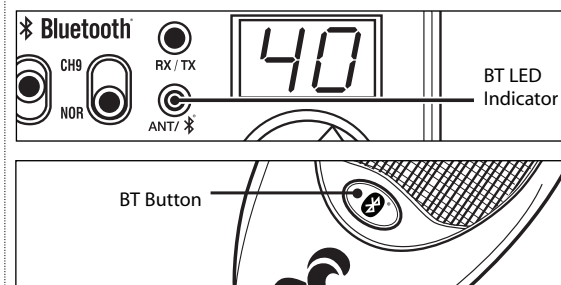
When cell phone calls are in progress using the Bluetooth feature, the CB functions of the unit are disabled.

Note

If no further pairing steps are taken, the unit will time-out and return to Standby after five minutes. During the pairing process, press and release the BT Button to cancel the pairing process.

Bluetooth

Calls on a Bluetooth enabled cell phone can be routed through the 29 LTD BT speaker or external speaker accessory.



To Pair with a Cell Phone

- 1 With 29 LTD BT power On, press and hold the BT Button for six seconds to enter Standby mode. A tone will sound and the BT LED will flash for one minute to confirm entry to Standby.
- 2 From Standby, press and hold the BT Button for four seconds to enter Pairing mode.
 - A. First time pairing with a cell phone:
 - I. A tone will sound and the BT LED will flash rapidly to confirm Pairing mode.
 - II. Follow the cell phone manufacturer's instruction to enable its Bluetooth function and enter the PIN (Personal Identification Number) 0000.
 - III. Successful pairing will be indicated by a tone and brief flashing of the BT LED to confirm entry to Connected mode. A pair record will also be established for subsequent connections.
 - B. Subsequent pairings with a cell phone:
 - I. Follow any cell phone manufacturer instructions, if needed, to enable the Bluetooth function.
 - II. Successful pairing will be indicated by a tone and brief flashing of the BT LED to confirm entry to Connected mode.

To Answer Calls

- 1 Press and release the BT Button when the cell phone ring is heard through the 29 LTD BT speaker. The BT LED will light steadily to indicate a call is in progress.
- 2 Speak into the 29 LTD BT microphone. The CB function of the unit and PTT Button will be disabled while a call is in progress.
- 3 End the call by press and release of the BT Button. A tone will sound and the BT LED will flash briefly.

To Initiate Calls

- 1 Dial a number according to the cell phone manufacturer's instructions. The key press and other tones will be heard through the 29 LTD BT speaker.
- 2 Press Send on the cell phone. The BT LED will light steadily to indicate a call is in progress; and after a few seconds, you will hear the ring tone for the number you dialed.
- 3 Once connected, speak into the 29 LTD BT microphone.
- 4 End the call by press and release of the BT Button. The BT LED will flash briefly.
- 5 Redial a number by press and hold of the BT Button for two seconds. A tone will sound; and after a few seconds, you will hear the ring tone for the number you dialed.

To Enable or Disable Voice Dialing

If the paired cell phone supports voice dialing, press and release the BT Button twice to toggle between enabling and disabling this feature.

To Turn Off The Bluetooth Function

Press and hold the BT Button for six seconds to turn off the Bluetooth function. Two short tones will sound and the BT LED will turn Off and remain Off.

To Re-pair The 29 LTD BT To The Cell Phone

If pairing is lost while the 29 LTD BT power is On, press and hold the BT Button for four seconds to re-pair with the cell phone.

If the 29 LTD BT is turned Off, it will retain the Bluetooth address and automatically re-pair with the last cell phone used when it is turned back On.

Operation

Note

For best audio quality while using the Bluetooth feature, place your cell phone at least 12 inches away from the 29 LTD BT.

Note

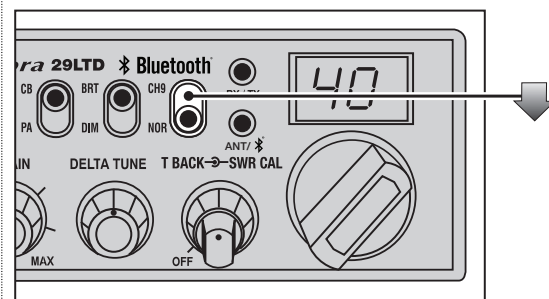
The optional external microphone (see accessories on page 35) can be plugged into the rear of the unit and clipped to a pocket or lapel for hands-free speech during calls.

When the optional microphone is plugged in, the main microphone will not pick up speech during calls but will be fully functional for CB operation.

Operation

Selecting A Channel

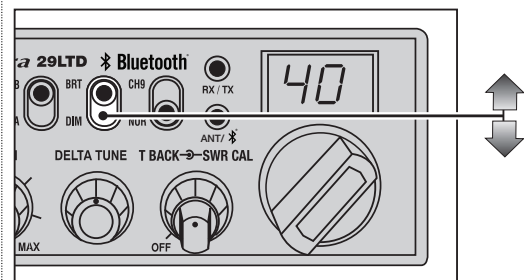
Selecting A Channel



- 1 Switch to NOR to select desired channel.

Bright/Dim Switch

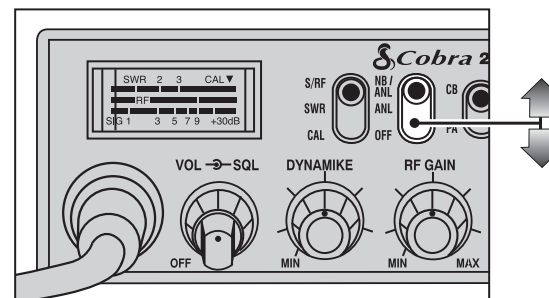
Bright/Dim Switch



- 1 Switch to BRT or DIM to control brightness of the channel indicator and multi-function meter for day or nighttime driving.

Operation

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.

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

Note

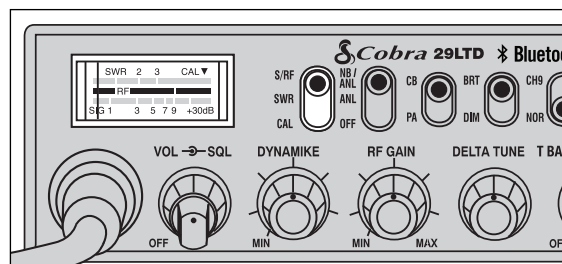
The RF noise blanker is very effective in reducing repetitive noises such as ignition interference.

Operation

RF Meter

RF Meter

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

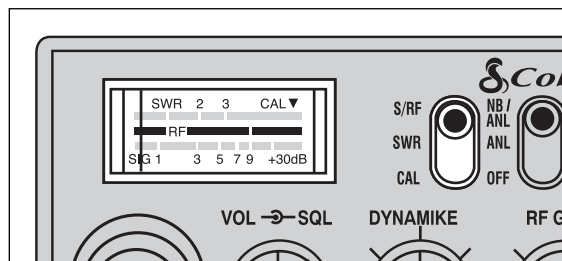


- 1 The S/R-SWR-CAL switch must be in the S/R position.

S-Meter

S-Meter

Swings proportionately to strength of incoming signal when receiving.



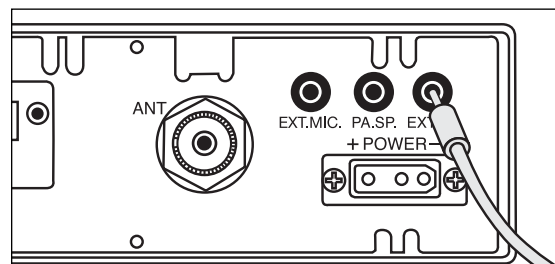
- 1 The S/R-SWR-CAL switch must be in the S/R position to read the meter.

Operation

External Speaker

External Speaker & Bluetooth Microphone

The external speaker jack is used for remote receiver monitoring. The optional Bluetooth microphone connects to the Ext Mic jack.



- 1 Connect an external speaker and/or Bluetooth microphone to the jacks on the rear panel.

Note

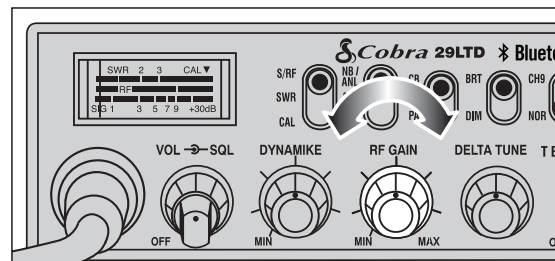
The external speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts. When the external speaker is plugged in, the internal speaker is automatically disconnected.

Note

Cobra external speakers are rated at 10 watts.

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

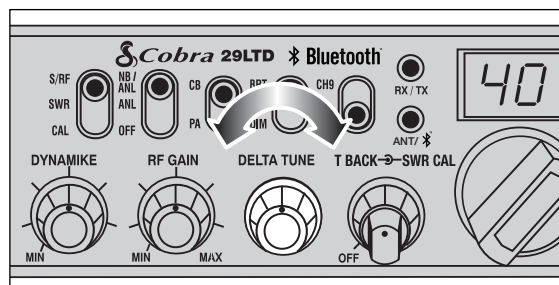
The RF Gain is used to optimize reception in weak signal areas.

Operation

Setting Delta-Tune

Setting Delta-Tune

Delta-Tune functions as a “fine tune” control enabling you to capture a more readable signal, as well as eliminate adjacent channel interference.

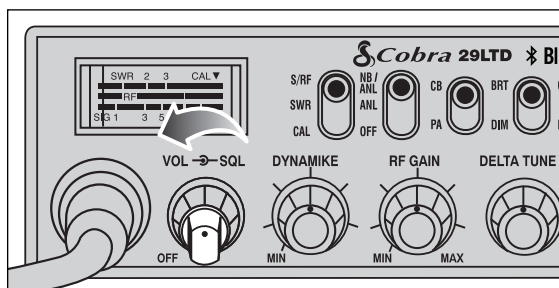


- 1 Rotate Delta-Tune knob to the center position for optimum tuning.

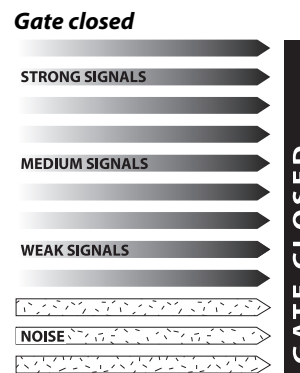
Setting Squelch

Setting Squelch

Squelch is the “control gate” for incoming signals.

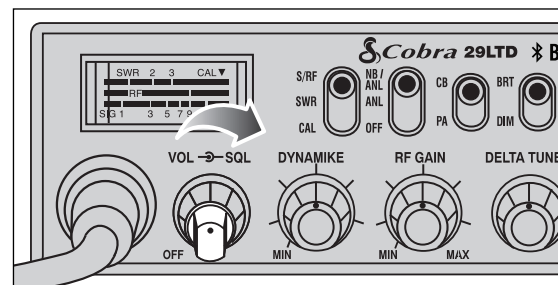
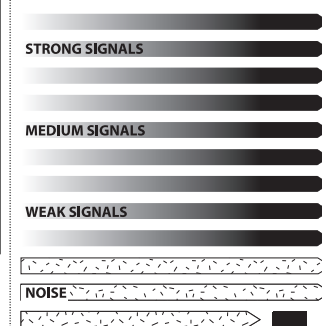


- 1 Full rotation closes the gate allowing only very strong signals to enter.



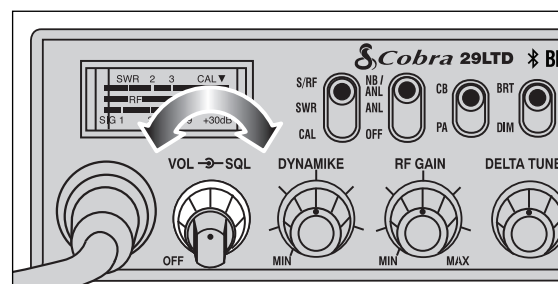
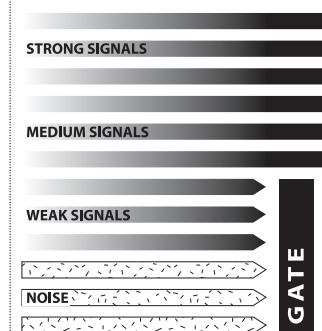
Operation

Gate open



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

Gate set to Desired Squelch Setting (DSS)



- 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.

Operation

To Transmit



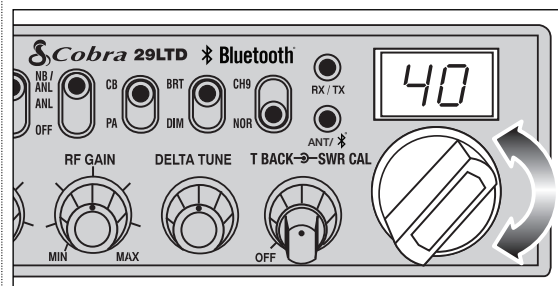
Caution!

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®

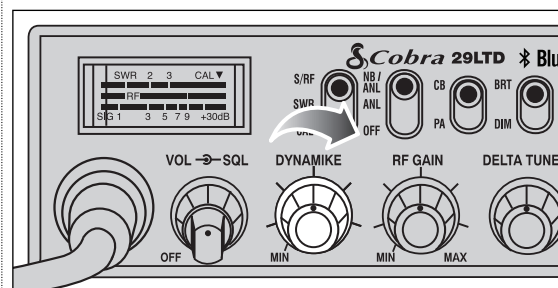
To Transmit



- 1 Select desired channel.

Setting Dynamike®

This controls the microphone sensitivity (outgoing audio level).



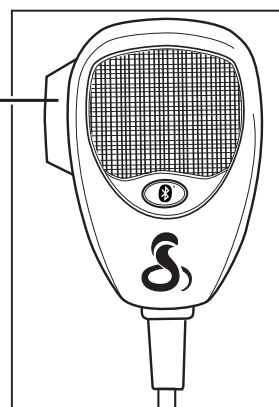
- 1 Initially, set fully clockwise so that maximum voice volume is available. Dynamike® may have to be reduced in some conditions.

Operation

To Transmit

To Transmit

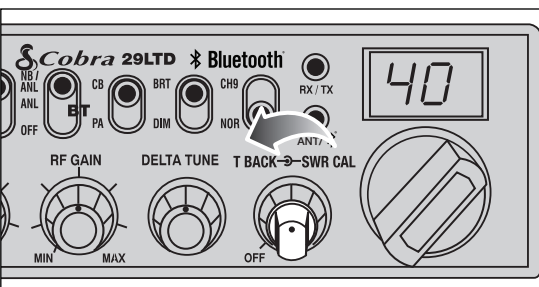
PUSH & HOLD



- 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.

Setting TalkBack

This control is used to adjust the desired amount of modulation talk back that is present at the speaker during transmit. At fully counter-clockwise position the talk back is off.



To Transmit

Operation

PA (Public Address)

Note

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

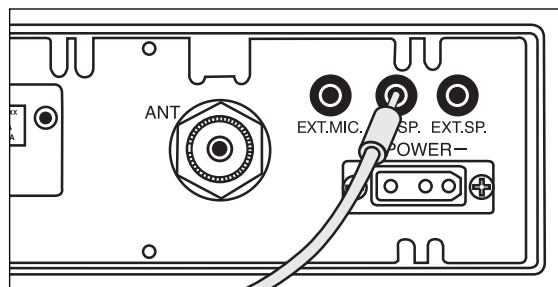
Note

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

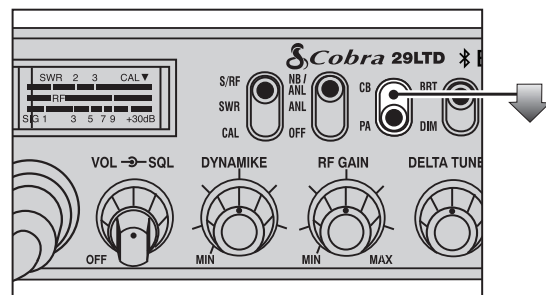
Note

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

PA (Public Address)

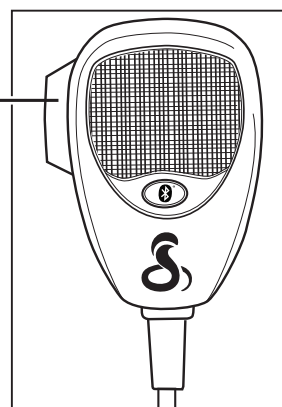


- 1 Connect an external PA speaker to the PA jack on the rear panel.

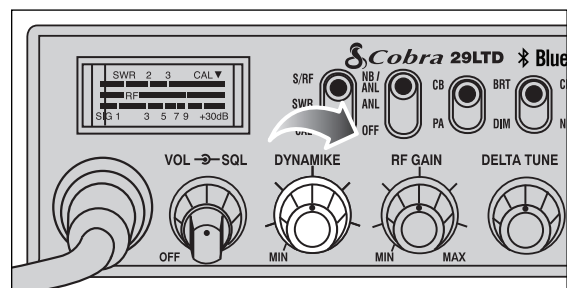



- 2 Set  CB/PA switch to PA position.

PUSH & HOLD



- 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

Home And Office Set-Up

Base Station Operation (From 120V AC House Current)



Warning!

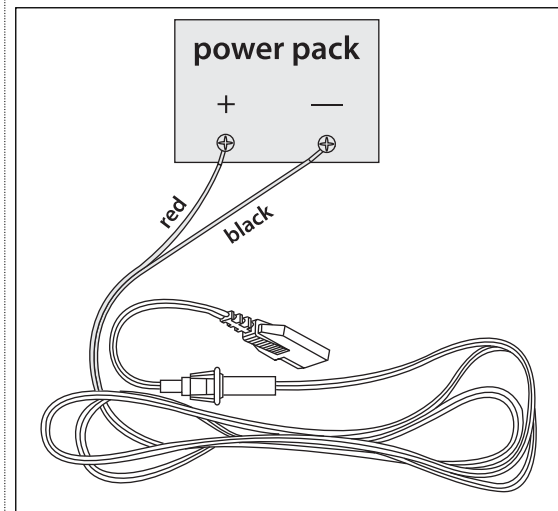
Do not attempt to operate this transceiver by connecting it directly to 120v ac.

Note

For further information call
Cobra Customer Service
773-889-3087.

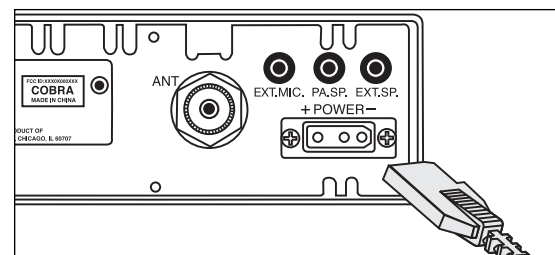
Base Station Operation (From 120V AC House Current)

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.

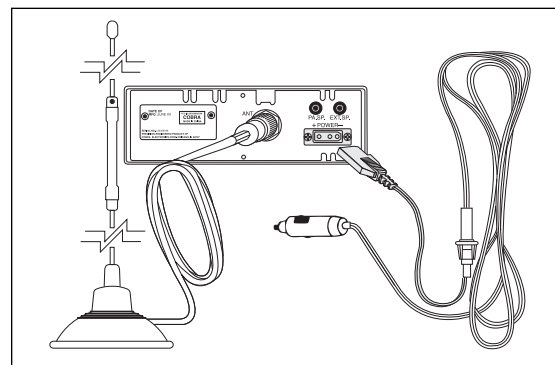
Temporary Mobile Set-Up



- 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 automobile power 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

Channel 9 Emergency Messages

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

- 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.

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.

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 LTD BT 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

29 LTD BT 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 + 50° C
Microphone	Plug-in noise canceling
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 2-13/64"H
Weight	.4 lbs.
Antenna Connector	UHF; SO-239
Meter	Illuminated; indicates relative power output, received signal strength and VSWR
Bluetooth Range	.33' (10 meters)

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 @ 10KHz
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 Control	Adjustable for optimum signal reception
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 5% @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, when PA-CB switch is in PA, (Not Supplied)
	The PA speaker also monitors the receiver; separate jack provided

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

WARNING: This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm..

Wash hands after handling.

Limited One Year Warranty



Cobra Electronics Corporation

6500 West Cortland Street
Chicago, Illinois 60707 USA

www.cobra.com

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 one (1) year 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.

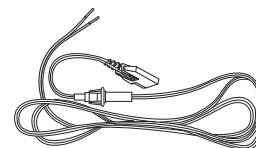
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Exclusions: This limited warranty does not apply; 1) to any product damaged by accident; 2) in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs; 3) if the serial number has been altered, defaced or removed; 4) if the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. COBRA shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation.

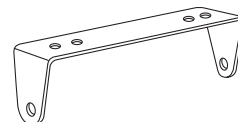
Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

Optional Accessories



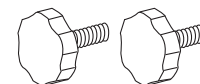
Replacement DC Power Cord

For in vehicle use
426-002-N-001



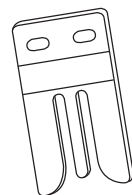
Replacement Mounting Bracket

For in vehicle use
251-353-9-001



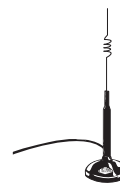
Replacement Thumb Screws

For in vehicle use
634-081-9-001



Replacement Microphone Bracket

For in vehicle use
741-080-9-001



21" Base Loaded Magnet Mount Antenna

HGA1000



38" Base Loaded Magnet Mount Antenna

HGA1500



External Bluetooth Microphone

MNA MIC

Optional Accessories cont.



Dynamic External Speaker

HG S100



Noise Canceling External Speaker

HG S300



Noise Canceling With Talk Back External Speaker

HG S500

Optional Accessories

You can find quality Cobra products and accessories at your local Cobra dealer, or in the U.S.A., you can order directly from Cobra. See ordering info on page 37.