



## 29 LTD AM/FM Series Professional CB Radio 4W Power / 40 Channels



29 LTD Classic / NightWatch® / Chrome  
**OWNERS MANUAL**

Thank you for purchasing the Cobra 29 LTD AM/FM Pro Series CB Radio Transceiver. Properly used, this Cobra product will give you many years of reliable service.

### Citizens Band Radio History

Invented by Al Gross in 1945, the CB radio originally served as a method of communication for troops during World War II. After the war, Gross worked to make two-way radios a way of communication for personal use and the CB radio service was established by law in the U.S. in 1949. It wasn't until the 1970s that technology advanced and the CB market caught on as a method of communication between drivers to report police speed traps and road hazards.

The Citizens Band Radio Service consists of 40 channel frequencies that are mostly 10 kHz apart. Transmitter power is limited to 4 watts in the US, and range can vary depending on the terrain and quality of the product.

Currently, the Citizens Band service does not require a license for operation, regardless of age, as long as the rules of operation established by the Federal Communication Commission (FCC) are followed.

### Petition For FCC Part 65 Rule Changes

In 2016, Cobra petitioned the FCC to revise Part 95 rules to allow CB radios to use frequency modulation (FM). Cobra contended that FM offers improved speech quality and lower noise interference, which improves the standard of two-way radios and is a benefit to the customer.

Through the direct efforts of Cobra Electronics and the enthusiastic support from loyal customers and the distribution network the FCC granted the request. In 2021, Part 95 officially was updated to include FM as an option for two-way radio use.

Today, thanks to Cobra Electronics' petitions to improve the quality of the Citizens Band Radio Service, users can enjoy the benefits of CB radio communication in a range of industries.



### Customer Support

Should you encounter any problems with this product, not understand its features, menu or installation, please refer to the this owner's manual. If you require further assistance, after reading this manual, we are here to help:

### Service, Orders & Product Questions

For service, product questions and service hours call 800-543-1608 or go to [www.cobra.com](http://www.cobra.com)

### For Assistance Outside the U.S.A.

Contact Your Local Dealer

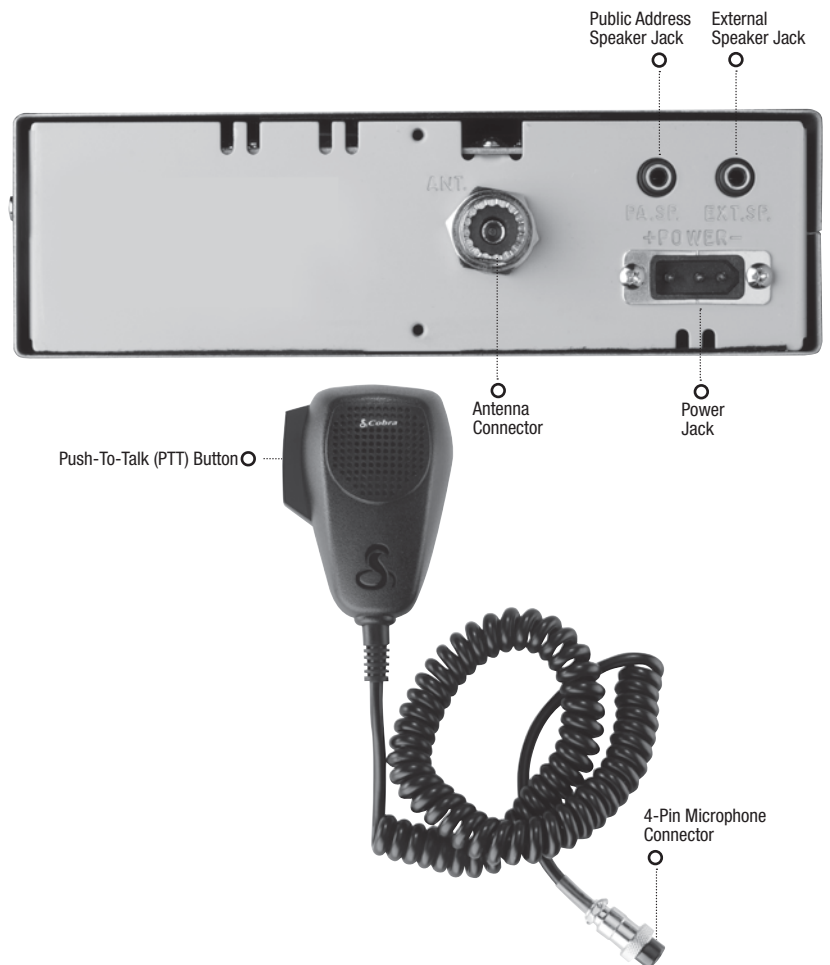
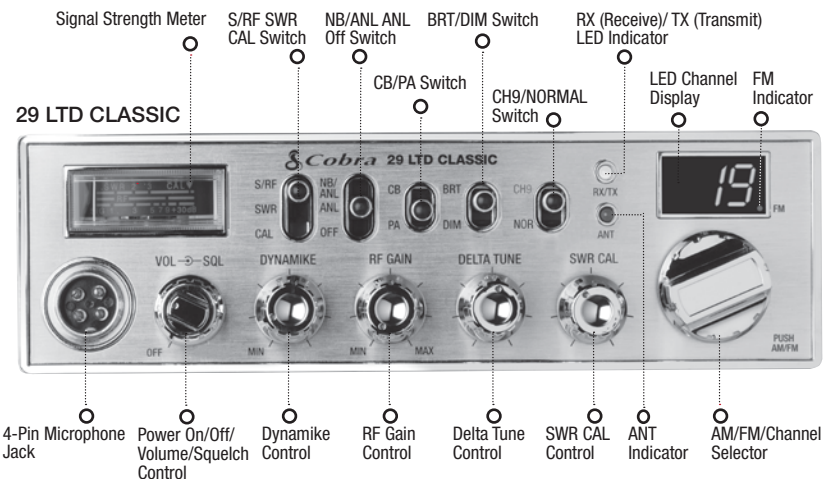


# 29 LTD AM/FM Pro Series Features



# Product Features and FCC Regulations

# NOTES



### FCC Compliance

Any changes or modifications not expressly approved by Cobra Electronics could void your authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC Compliance

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# Installation

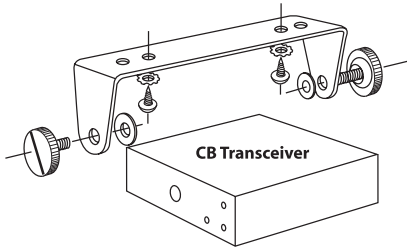
## Location

Plan for the location of the CB 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.

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

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

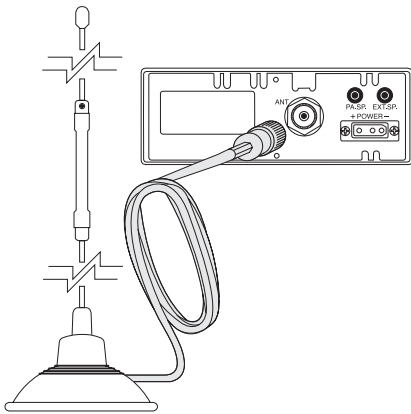


## Mounting and Connection

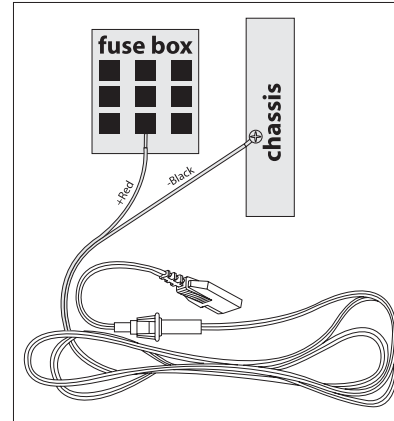
1. Hold the radio with the mounting bracket in the exact desired location. If there is no interference, remove the bracket and use it as a template to mark the location for the mounting screws.

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.



# Installation



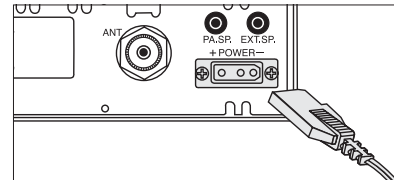
4. Connect the red lead of the DC power cord to an accessory 12 volt fuse or directly to the battery.

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

5. Connect the black lead to the negative side of the vehicle electrical system. This is usually the chassis.

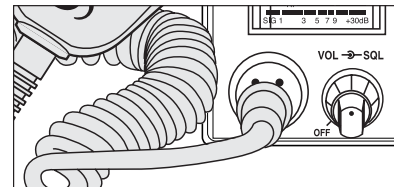
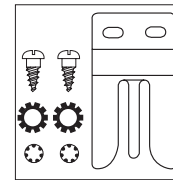
Any convenient location with a good electrical contact (remove paint) may be used.

**NOTE:** Before installing the CB radio, visually check the vehicle's battery connection to determine which terminal is positive or negative. A negatively grounded vehicle has its negative lead grounded to the chassis.



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

7. The microphone can be mounted to either side of the CB using the supplied screws. Alternatively the microphone can be mounted to the dash or any convenient location.



8. Attach the microphone to the front of the CB.

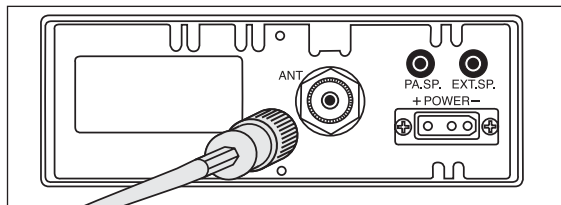
**NOTE:** If the microphone is not connected, audio will not be heard at the speaker.



# Antennas

## 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 800-543-1608 and speak to a Cobra representative. A standard antenna connector is provided on the transceiver for easy connection.



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

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.

Cobra offers CB antenna and mounting solutions that can be purchased online.

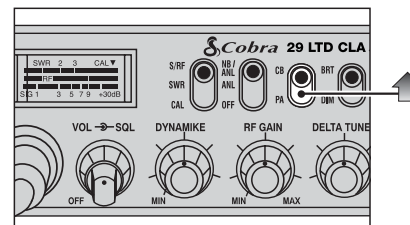
**Please visit [www.cobra.com](http://www.cobra.com), or if you'd like to speak with an expert, please call 1-800-543-1608 and our Customer Care Group can assist.**



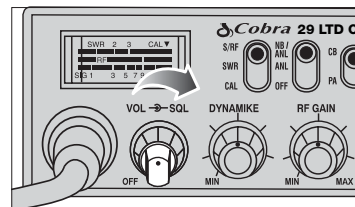
# Operation

## Turning On Your CB

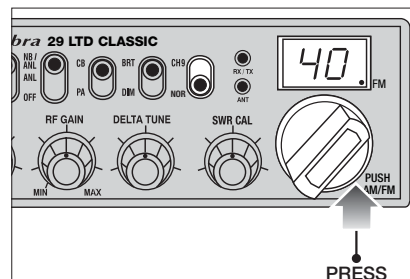
Make sure the power cord, antenna and microphone are connected to their proper connectors before starting.



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



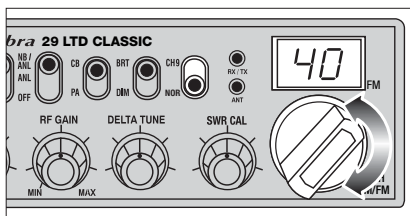
2. Rotate the On/Off Volume knob clockwise to a normal listening level.



## Setting AM/FM

29 LTD Series AM/FM CBs allows for communications on either AM or FM modes. Each mode operates under Channels 1 - 40. AM is the default mode.

To change to FM mode, press and release the channel selector knob to choose FM. Once selected a green indicator will appear to the right of the displayed channel and indicate you are in FM Mode.



## Setting Channel Selector

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

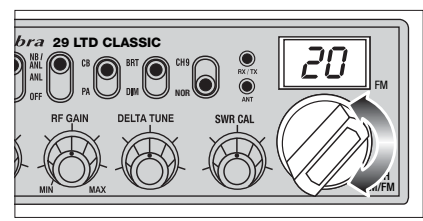


# Operation

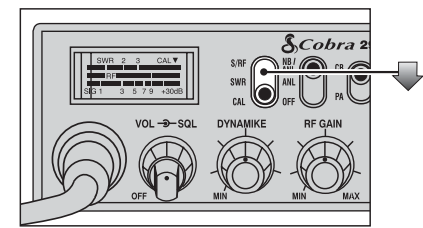
## Calibrate for SWR (Standing Wave Ratio)

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 to achieve optimum performance.

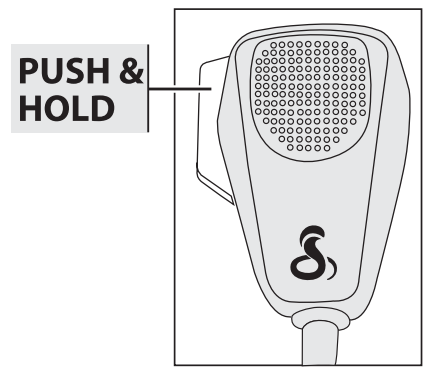


1. Select Channel 20.



2. Switch to the **CAL** position.

**NOTE:** Antenna Indicator LED will illuminate when transmitting if the SWR is high.



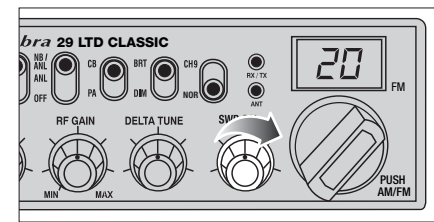
3. Push and hold the mic button.



# Operation

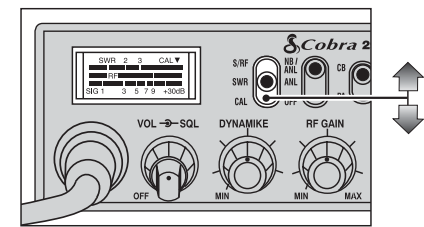
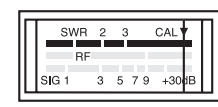
## Calibrate for SWR (Standing Wave Ratio)

continued



4. While holding the mic button adjust the **SWR CAL** knob so the meter swings to the **CAL** mark on the right side of the meter.

**NOTE:** Calibration must be made in an open area (never in a garage). The vehicle's doors must be closed. No one should be standing near the antenna. (See your antenna directions for more complete information.)



5. While still holding down the mic button, set the **S/RF SWR CAL** position, to read the SWR reading.

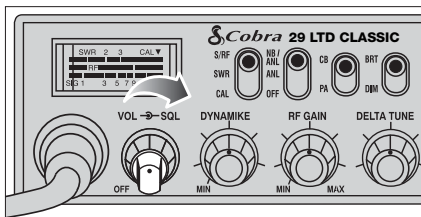
6. Repeat the same steps two through five on Channel 1 and 40. This will check SWR for all channels.

**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 recalibration steps.

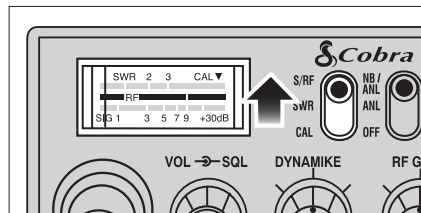


# Operation



## To Receive

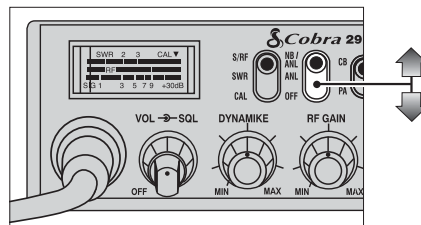
Rotate the **On/Off Volume knob clockwise**. While receiving the **RX/TX LED** will be illuminated and the lower portion of the meter will show the incoming signal strength.



## S-Meter

The S-Meter swings proportionately to the strength of the incoming signal when receiving.

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



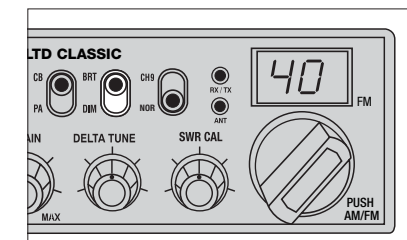
## NB-ANL/ANL/OFF (Noise Blanker/Automatic Noise Limiter) Switch

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

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

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

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

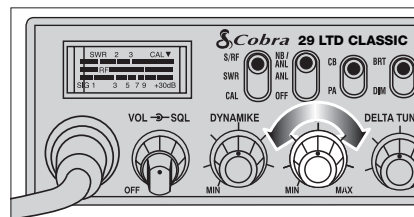


## Bright/Dim Switch

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



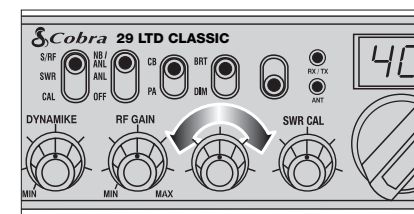
# Operation



## RF Gain Control

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

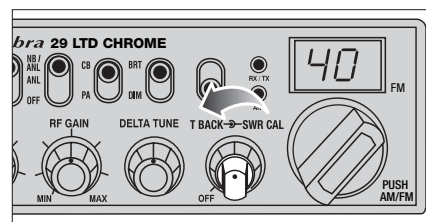
Rotate the **RF Gain knob counterclockwise** to reduce gain in strong signal areas. In weak signal areas turn clockwise to increase gain.



## Setting Delta Tune (29 LTD/29 LTD Chrome)

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

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



## Setting TalkBack (29 LTD Chrome)

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.



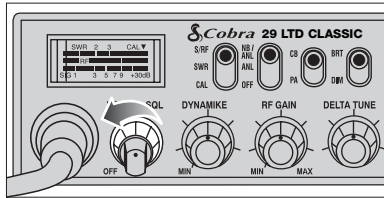
## Dimmer Control (29 LTD NightWatch®)

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

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



# Operation



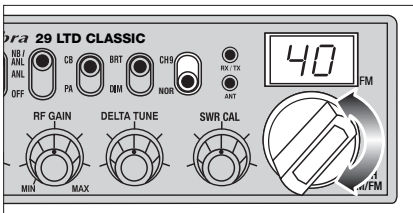
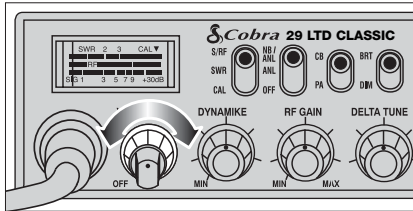
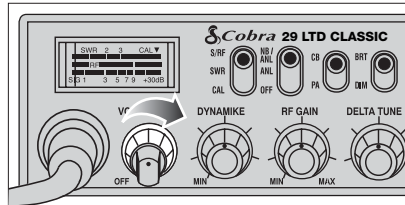
## Setting Squelch

Squelch (SQ) is used to cut off or eliminate background noise in the absence of an incoming signal (when you are not talking).

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**.



## To Transmit

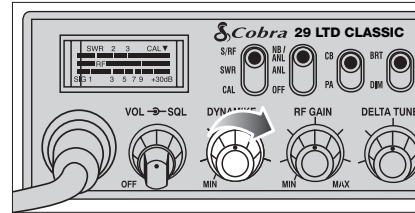
1. Select the desired channel.

**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 FCC Part 95 Rules and Regulations before transmitting.



# Operation

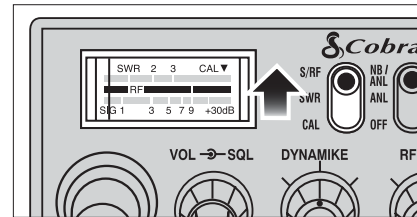
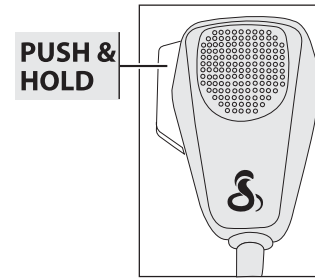


## Set Dynamike®

This controls the microphone sensitivity (outgoing audio level).

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

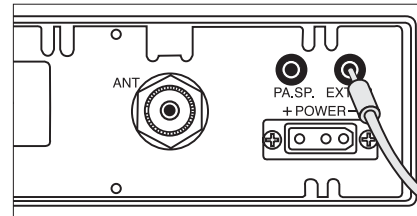
3. **Push and hold** the mic button to transmit. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. Release the mic button to receive.



## RF Meter

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

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



## External Speaker

Connecting an external speaker can provide louder and clearer incoming audio.

Connect an external speaker to the **external speaker jack** on the rear panel.

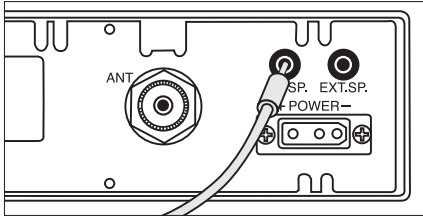
**NOTE:** The external speaker should have **8-ohm** impedance and be rated to handle at least **4.0 watts**. When the external speaker is plugged in, the internal speaker is automatically disconnected.

Cobra external speakers are rated at 10 watts.





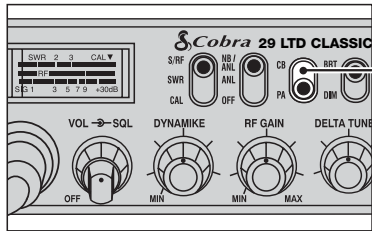
# Operation



## PA (Public Address)

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

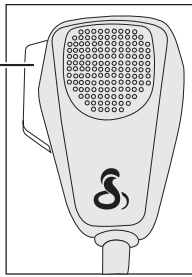
**NOTE:** The speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts.



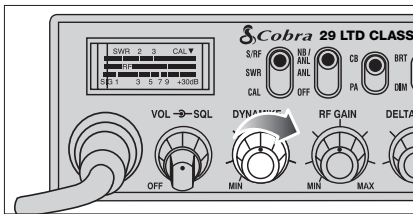
2. Set the **CB/PA** switch to the **PA** position.

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

**PUSH & HOLD**



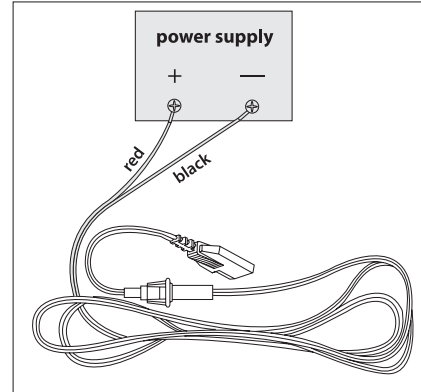
3. **Push and hold** the microphone button and speak in a normal voice. Your voice will now transmit through the PA speaker.



4. Adjust the PA speaker volume with the **Dynamike®** control.



# Operation

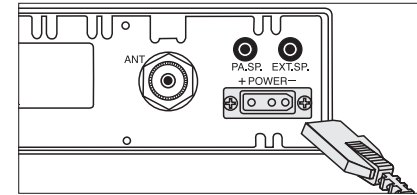


## Base Station Operation (From 120V AC House Current)

To operate the 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.

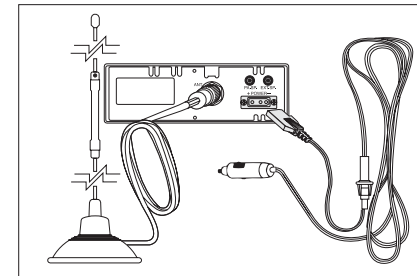
**WARNING:** Do not attempt to operate this transceiver by connecting it directly to 120VAC.

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



2. **Plug the power cable** into the back of the unit marked "Power". Be sure to **observe polarity markings**.

3. Connect a 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.



# How Your CB Can Serve You

## Your CB Radio Can:

- 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.

## Set Channel 9 For Emergencies

Be sure antenna is properly connected.

## 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.

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



# How Your CB Can Serve You

The FCC gives these examples of permitted and prohibited messages for channel 9. These are only guidelines and not all-inclusive:

Permitted	Example Message
Yes	“Tornado sighted six miles north of town.”
No	“Post number 10. No tornado sighted.”
Yes	“Out of gas on I-95 at mile marker 211.”
No	“Out of gas in my driveway.”
Yes	“Four car accident on I-94 at Exit 11. Send police and ambulance.”
No	“Traffic moving smoothly on I-94.”
Yes	“Weather Bureau has issued thunderstorm warning. Bring sailboat into port.”
No	“Attention motorists. Weather Bureau advises snow tomorrow will accumulate 4 to 6 inches.”
Yes	“Fire in building at 539 Main, Evanston.”
No	“Halloween patrol number 3. All quiet.”



# CB 10-Codes

Citizen Bands have adopted the “10-CODES” for standard questions and answers. These codes provide quick and easy communication, especially in noisy areas. The following are some of the more common codes and meanings:

Code	Meaning	Code	Meaning
10-1	Receiving poorly	10-34	Trouble at this station
10-2	Receiving well	10-35	Confidential information
10-3	Stop transmitting	10-36	Correct time is
10-4	OK, message received	10-37	Wrecker needed at
10-5	Relay message	10-38	Ambulance needed
10-6	Busy, stand by	10-39	Message delivered
10-7	Out of service, leaving	10-41	Turn to channel
10-8	In service, subject to call	10-42	Traffic accident at
10-9	Repeat message	10-43	Traffic tie up at
10-10	Transmission completed standing by	10-44	Have a message for
10-11	Talking too rapidly	10-45	All units within range please report
10-12	Visitors present	10-50	Break channel
10-13	Advise weather/roads	10-60	What is next message number?
10-16	Make pick up at	10-62	Unable to copy. Use phone
10-17	Urgent business	10-63	Net directed to
10-18	Anything for us?	10-64	Net clear
10-19	Return to base	10-65	Awaiting your next message/assignment
10-20	My location is	10-67	All units comply
10-21	Call by phone	10-70	Fire at
10-22	Report in person to	10-71	Proceed, transmission in sequence
10-23	Stand by	10-77	Negative contact
10-24	Completed last assignment	10-81	Reserve hotel room for
10-25	Can you contact	10-82	Reserve room for
10-26	Disregard last info	10-85	My address is
10-27	Moving to channel	10-91	Talk closer to mic
10-28	Identify your station	10-93	Check my frequency on this channel
10-29	Time is up for contact	10-94	Give me a long count
10-30	Does not conform to FCC rules	10-99	Mission completed, all units secure
10-33	Emergency traffic	10-200	Police needed at



# Frequency Ranges

The Cobra 29 LTD Pro Series transceivers represent some of the most advanced AM/FM two-way radios used as a Class D station in the Citizens Band Radio Service. These units feature 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



# Specifications



# Limited 2-Year Warranty

## 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 dynamic
Input Voltage	13.8VDC nom. (negative ground)
Current Drain	Transmit: AM full mod., 1.5A (maximum) Receive: Squelched, 0.3A; full audio output, 1.2A (nominal)
Size	2.25" D x 7.25" W x 9.25" H
Weight	5.6 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) and FM (Frequency Modulation)
Frequency Response	300 to 3000 Hz
Output Impedance	50 ohms, unbalanced

## RECEIVER

Sensitivity	Less than 1 µV 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 Control	Adjustable for optimum signal reception
Noise Blanker	RF type
Squelch	Adjustable; threshold less than 1µV
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

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

## Warranty Terms:

Cobra warrants your product against all defects in materials and workmanship for a period of two (2) years from the date of original purchase.

Cobra, at our sole discretion, will repair or replace your product (with the same or comparable product) free of charge.

Cobra will not pay shipping charges that you incur for sending your product to us. Products received COD will be refused.

To make a warranty claim, we will require proof of purchase in the form of an invoice or receipt. No proof of purchase is required for factory direct purchases.

**Warranty Exclusions:** Warranty does not apply to your product under any of the following conditions: 1. The serial number has been removed or modified. 2. Your product has been subjected to misuse or damage (including water damage, physical abuse, and/or improper installation). 3. Your product has been modified in any way. 4. Your receipt or proof-of-purchase is from a non-authorized dealer or internet auction site including E-bay, U-bid, or other non-authorized resellers.

**LIMITATION OF WARRANTY: EXCEPT AS EXPRESSLY PROVIDED HEREIN, YOU ARE ACQUIRING THE PRODUCT "AS IS" AND "WHERE IS", WITHOUT REPRESENTATION OR WARRANTY. COBRA SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY INCLUDING, BUT NOT LIMITED TO THOSE CONCERNING THE MERCHANTABILITY AND SUITABILITY OF THE PRODUCT FOR A PARTICULAR PURPOSE. COBRA SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES ARISING OUT OF THE USE, MISUSE OR MOUNTING OF THE PRODUCT.**

The above limitations or exclusions shall be limited to the extent they violate the laws of any particular state. Cobra is not responsible for products lost in shipment between the owner and our service center.

## General Warranty Information

Each product we manufacture is covered by our factory warranty. While each product may have unique components and policy, the general guideline below will apply to most Cobra products.

All Cobra products purchased factory-direct or from our Authorized Resellers will come with a full one to three (1-3) year warranty from the date of the original retail purchase (see policy statement above for full warranty details and exclusions).

Standard accessories packaged with each model will have a one-year factory warranty.

Accessory items have a one-year factory warranty.

Shipping to our facility is not covered in our warranty. Return shipping is included within the US.

This warranty is non-transferrable.

For the sake of clarity, 'repair or replace the Product or its defective part' does not include removal or installation work, costs or expenses which include but are not limited to labor costs or expenses.

Cobra will not be responsible for lost packages.



# Need Help?

If you have any questions about operation or installing your new Cobra product, PLEASE CONTACT COBRA FIRST...do not return this product to any retail store.

The contact information for Cobra will vary depending on the country in which you purchased and utilize the product. For the latest contact information, please go to [www.cobra.com/support](http://www.cobra.com/support)

For products purchased in the U.S.A. you may call 800-543-1608.

For products purchased in the U.S.A., if your product should require factory service, please please go to [www.cobra.com/support](http://www.cobra.com/support) and follow the instructions for returning your product to the Cobra Factory Service Department for service.

Should there be any problems with this product or further information is needed on its features please visit [www.cobra.com](http://www.cobra.com) for support, frequently asked questions, Declarations of Conformity, and full manuals.

### For Products Purchased Outside the U.S.A. or Canada

Please contact your local dealer for product service information.



# 29 LTD Series Features



Features / Models	Cobra 29 LTD	Cobra 29 LTD NW	Cobra 29 LTD CHR
Display Type	Green LED	Green LED	Blue LED
Instant Channel 9/19	Channel 9	✓	Channel 9
AM/FM	✓	✓	✓
40 CB Channels / 4 Watts Power	✓	✓	✓
RF Gain	✓	✓	✓
Squelch	✓	✓	✓
Dynamike	✓	✓	✓
Switchable Noise Blanker	✓	✓	✓
SWR Calibration	✓	✓	✓
Antenna Warning Indicator	✓	✓	✓
PA Capability	✓	✓	✓
Delta Tune	✓		✓
NightWatch® Illumination Front Panel	—	✓	✓
Talk-Back Feature	—	—	✓
Chrome Design	—	—	✓



# FCC Statement

## FCC Part 15.19 Warning Statement

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

## FCC Part 15.21 Warning Statement-

**NOTE:** THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## FCC Part 15.105(b) Warning Statement

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## IC RSS-GEN, Sec 8.4 Warning Statement

**ENGLISH:** This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**FRENCH:** Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



# FCC Statement

## IC RSS-GEN, Sec 8.3 Warning Statement

**ENGLISH:** This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi) and required impedance for each.

**FRENCH:** Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

## RF Exposure Statement

**ENGLISH:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 40cm between the radiator & your body.

The device is in compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance. The minimum distance from body to use the device is 40cm.

**FRENCH:** Cet équipement est conforme aux limites d'exposition aux rayonnements de la FCC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 40 cm entre le radiateur et votre corps.

Après examen de ce matériel aux conformité ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et compliance d'acquérir les informations correspondantes. La distance minimale du corps à utiliser le dispositif est de 40cm.

# NOTES