

How to Use Your Cobra 29 LX BT

Contents	
Features	1
The CB Story	A1
FCC Regulations, FCC Warnings & Included Accessories	
Controls & Indicators	A2
Our Thanks to You	A3
Customer Support	
Installation	2
Location & Mounting/Connection	2
Antennas	
CB Antenna & Marine Installation	6
Ignition Noise Interference	7
Operating Your 29 LX BT	
Turning On Your CB	8
Setting Channel Selector	9
Calibrate For SWR (Standing Wave Ratio)	10
To Receive	12
Selecting a Channel	13
S-Meter	13
To Transmit	14
Setting Dynamike®	15
Menu Mode	16
Setting the Clock	17
Setting the Alarm	17
Setting the Count Down Timer	18
Key Tones Mode	18
Radio Check Mode	19
Setting Display Color Mode	20
Setting Brightness Mode	21
Setting Contrast Mode	21
Turn NightWatch Illumination On/Off	21
Bluetooth Pairing	22
Turn Bluetooth Off	24
Weather Information	25
Weather Channels	25
Weather Alert Mode	26
Setting Weather Alert Scan	26
Setting Weather Auto Scan	26
Software version/Factory Settings	27
NB-ANL/Off (Noise Blanker/Automatic Noise Limiter Switch)	28
Setting Delta Tune	28
RF Gain Control	28
Program Memory Channels	29
Scan/Memory Scan	30
Scan Memory Channels	30
Scan CB Channels	30
Dimmer Control	30
Setting Squelch	31
S/RF Meter	32
External Speaker	33
External Push-to-Talk Jack	33
External Mic Jack	33
Home And Office Set-Up	34
Temporary Mobile Set-Up	35
How Your CB Can Serve You	36
A Few Rules You Should Know	36
Channel 9 Emergency Messages	36
CB 10 Codes	38
Frequency Ranges	40
29 LX BT Specifications	41
Warranty Information	42
Optional Accessories	43
If You Need Service/Trademark Info	Back Cover

Features of This Product

- Selectable 4-Color LCD Display
 - Advanced **Bluetooth®** Connectivity
 - NightWatch® Illumination
 - 10 Weather Channels
 - Weather Scan
 - Emergency Weather Alert
 - 40 CB Radio Channels
 - 40 Channel Scan
 - Memory Channels
 - Channel Frequency Read-Out
 - Radio Check Diagnostic
 - Clock/Timer/Alarm
 - Heavy-Duty Dynamic Microphone with Phone Function
 - Full 4 Watts AM RF Power Output
 - SWR Calibration Meter
 - Instant Channel 19 and 9
 - Front Panel 6-Pin Microphone Connector
 - Switchable Automatic Noise Limiter & Noise Blanker
 - Adjustable Dynamike Boost
 - Tactile Controls
 - 9 Ft Mic Cord
 - Programmable Dimmer Control
 - RF Gain
 - USB Output
 - External Push-To-Talk Jack
 - External Microphone Jack
- ## Bluetooth® Features
- Dual Point **Bluetooth®**
 - Caller I.D.
 - A2DP Audio Streaming
 - Auto Phone Book Download

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

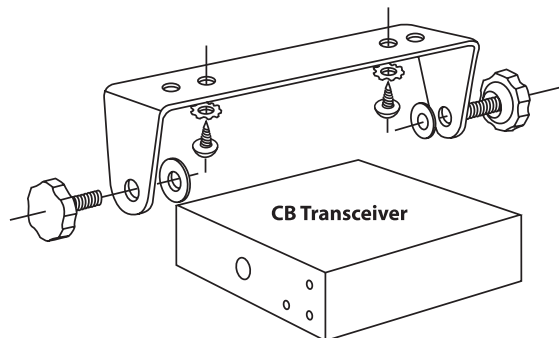
Note

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.

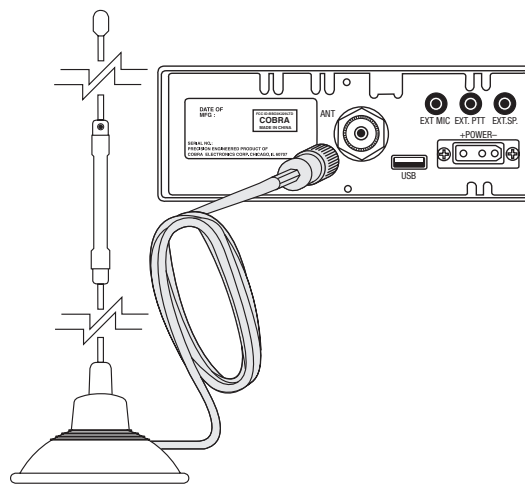
Mounting and Connection

- 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

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

Note

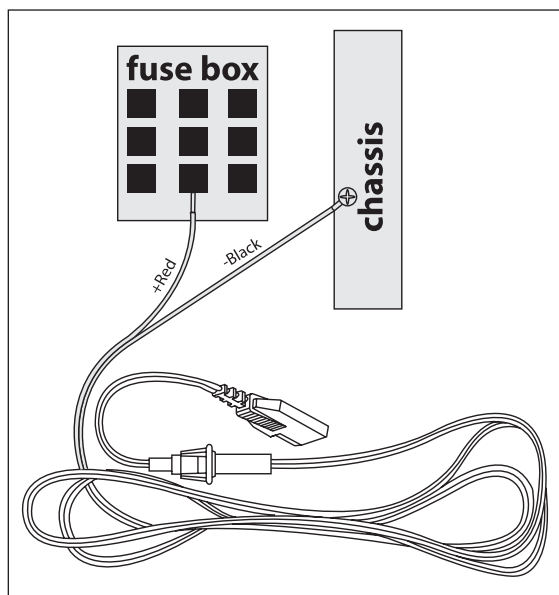
Connecting to an accessory fuse prevents the unit from being left on accidentally, and also permits operating the unit without running the engine.

Note

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

Note

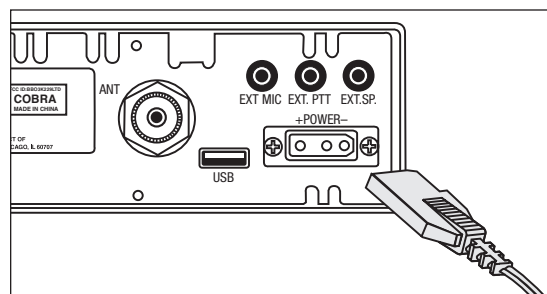
When connected to an accessory fuse, unit will self test the emergency weather alert automatically when ignition is turned on. Turns itself on & off.



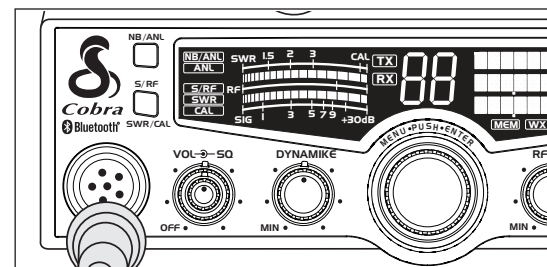
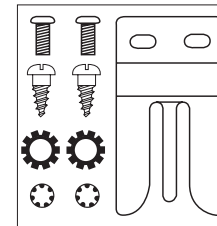
- 4 In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.
- 5 Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.

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 microphone cable to receptacle on front of unit and install unit in bracket securely.

Note

If microphone is not connected, audio will not be heard at speaker.

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

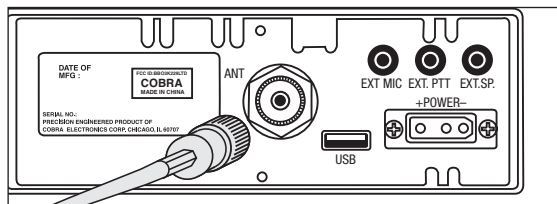
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via a ground strap, if the antenna is mounted on the mirror bracket.

Note

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

CB Antenna

Since the maximum allowable power output of the transmitter is limited by the FCC, the antenna is critical in affecting transmission distance. Only a properly matched antenna system will allow maximum power output. Cobra loaded type antenna models are highly recommended for most installations. **For models with Weather Feature (WX), a Dual Band (Center Load/Base Load) antenna is recommended.** Consult your Cobra dealer for further details, or call 773.889.3087 and speak to a Cobra representative.



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

Marine Installation

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

Ignition Noise Interference

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

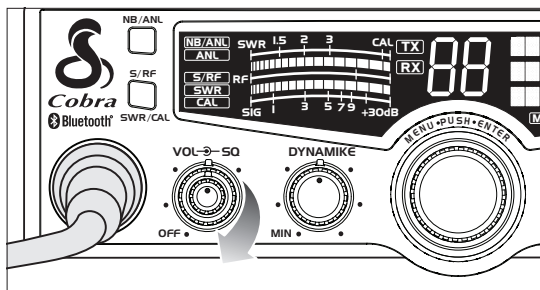
Even though the Cobra 29 LX BT has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Many possibilities exist and variations between vehicles require different solutions. Consult your Cobra dealer or a 2-way radio technician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

Operation

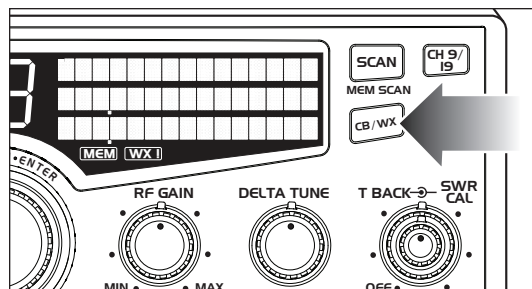
Turning On

Turning On

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



- 1 Rotate the **On/Off Volume** knob *clockwise* to turn unit on and adjust to a normal listening level.



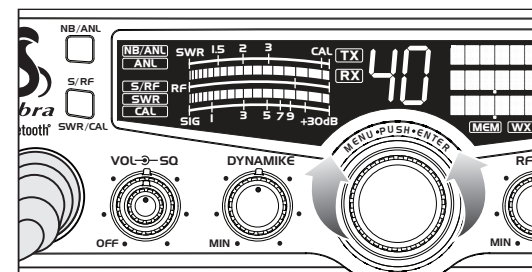
- 2 Press the **CB/WX** button to change modes.

8

Operation

Setting Channel Selector

Setting Channel Selector



- 3 Select one of forty channels and adjust volume. The selected channel (1 through 40) will be indicated by the readout directly above the channel selector knob

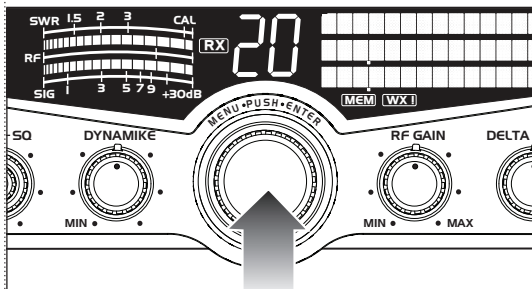
Note

Press **CB/WX** to select **CB** or **weather channel** modes.

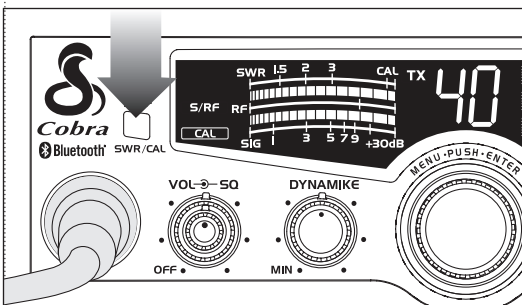
9

Calibrate For SWR (Standing Wave Ratio)

Calibrate for SWR (Standing Wave Ratio)
 SWR calibration is done to properly adjust the length of the antenna and to monitor the quality of the coaxial cable and all RF connections. This calibration is critical in order to achieve optimum performance.

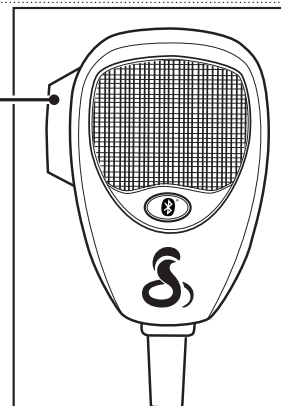


1 Select channel 20.

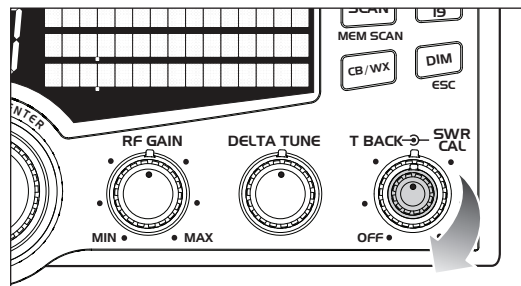


2 Press **SWR/CAL** button to select CAL.

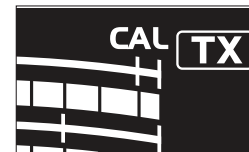
PUSH & HOLD



3 Push and hold mic button.



4 While holding mic button *adjust* the **SWR CAL** knob so the meter swings to the CAL mark on the meter (located on the right).



Note

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

Note

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

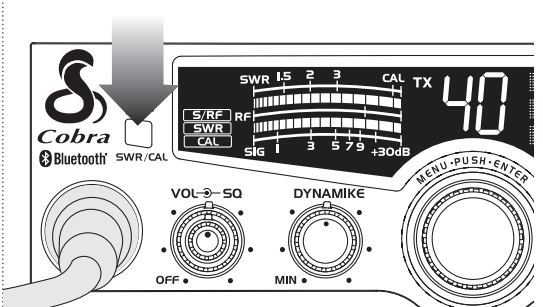
continued

Operation

Calibrate for SWR *continued*

Note

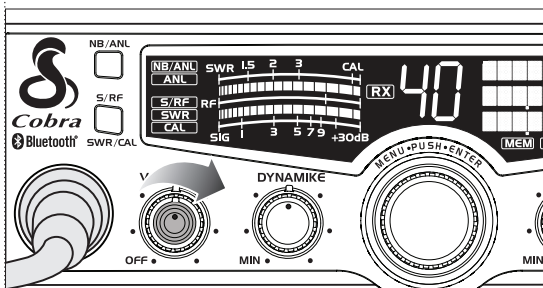
When switched to SWR mode the meter reading should ideally be as far to the left as possible. Anything over 3 is not acceptable. A slight antenna height adjustment (higher or lower) may be required. Repeat recalibration steps.



- 5 Release the PTT button, press and release the **S/RF-SWR CAL** button to the SWR position. Then press the PTT button to read the SWR reading.
- 6 Repeat the same steps two through five on Channel 1 and 40. This will check SWR for all channels.

To Receive

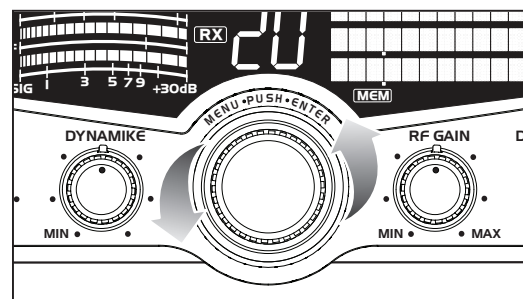
To Receive



- 1 Rotate the **On/Off Volume** knob *clockwise*. The RX icon will be displayed.

Operation

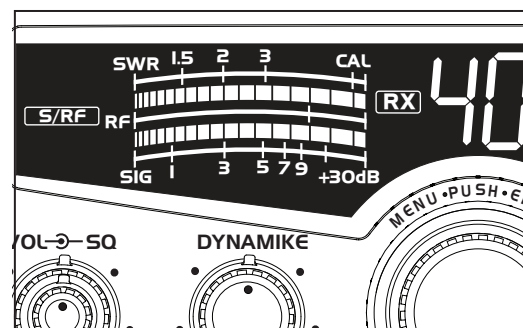
Selecting A Channel



- 1 Unit should be in CB mode. Rotate **channel selector** *clockwise* or *counter-clockwise* to select desired channel.

S-Meter

Swings proportionately to strength of incoming signal when receiving.



- 1 The **S/RF-SWR-CAL** switch must be in the S/RF setting to read the meter.

Selecting A Channel

S-Meter

Operation

To Transmit

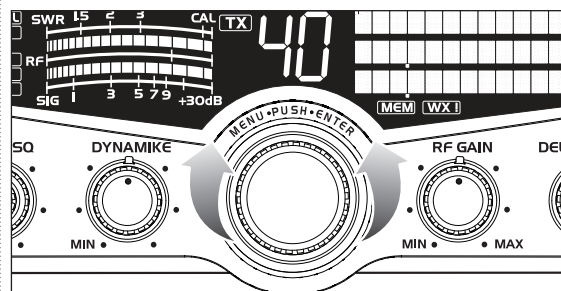


Caution!

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.

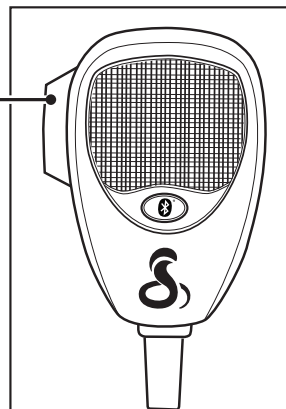
To Transmit



- 1 Select desired channel.

Transmit

PUSH & HOLD

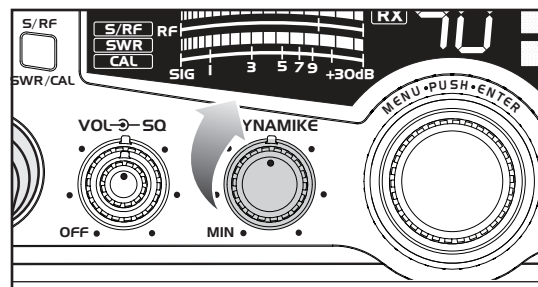


- 2 Push and hold mic button to transmit. Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. Release to receive.

Operation

Setting Dynamike®

This controls the microphone sensitivity (outgoing audio level).

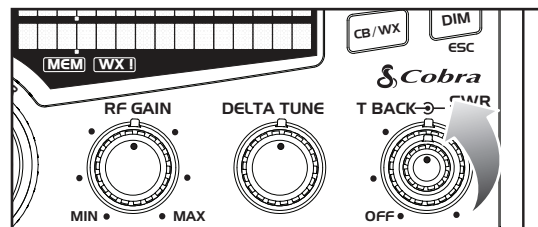


- 3 Initially, set fully *clockwise* so that maximum voice volume is available. Dynamike may have to be reduced in some conditions.

Setting TalkBack

This control is used to adjust the desired amount of modulation talk back is present at the speaker during transmit.

At fully *counter-clockwise* position the TalkBack is **Off**.



Setting Dynamike®

Setting TalkBack