How to Use Your Cobra 29 LX BT

Contents

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 Electret 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*

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

❶ 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.

CB Transceiver
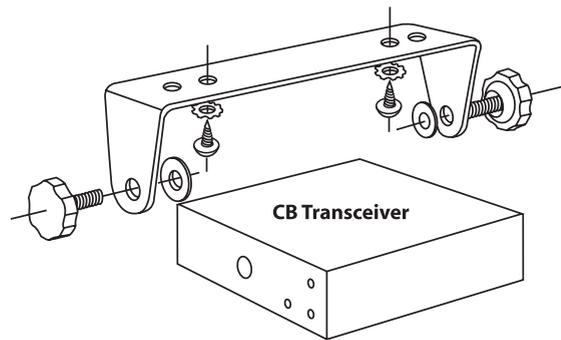
❷ Drill the holes and secure the bracket.
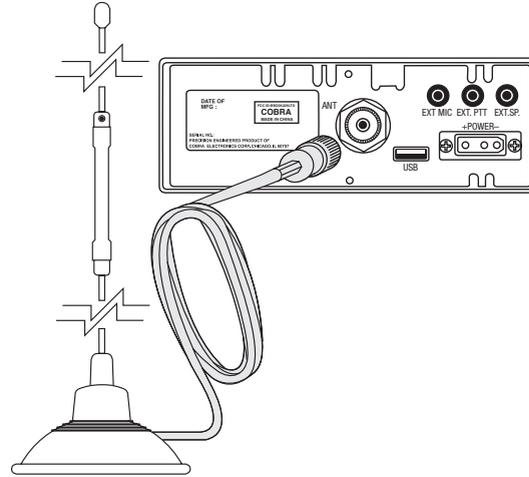
❸ Connect the antenna cable plug to the receptacle marked "ANT" on the back of the unit.

fuse box

chassis

+Red   -Black

④ In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.

⑤ Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.
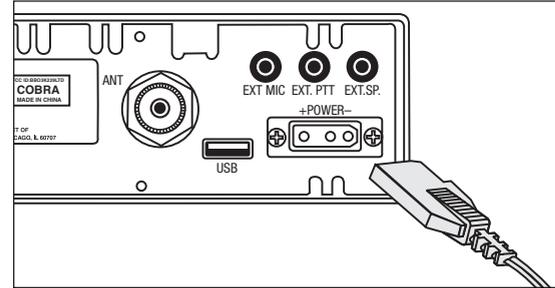
⑥ Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.

⑦ Mount the microphone bracket on either side of the unit (driver's left) using two screws supplied. Bracket should be placed under the dash so microphone is readily accessible.

Note

If microphone is not connected, audio will not be heard at speaker.
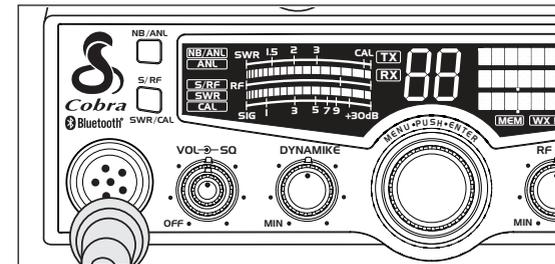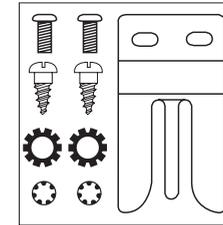
⑧ Attach the microphone cable to receptacle on front of unit and install unit in bracket securely.

CB Antenna

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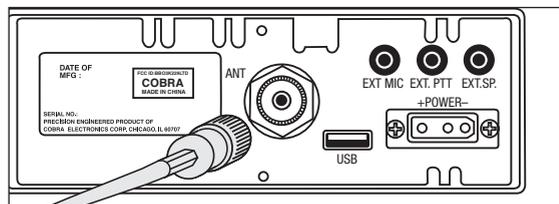
❶ A standard antenna connector is provided on the transceiver for easy connection.

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.

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.

Turning On

Turning On

Make sure the power cord, antenna and microphone are connected to their proper connectors before starting.
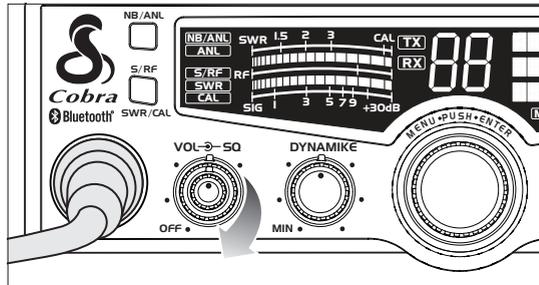
❶ Rotate the **On/Off Volume** knob *clockwise* to turn unit on and adjust to a normal listening level.
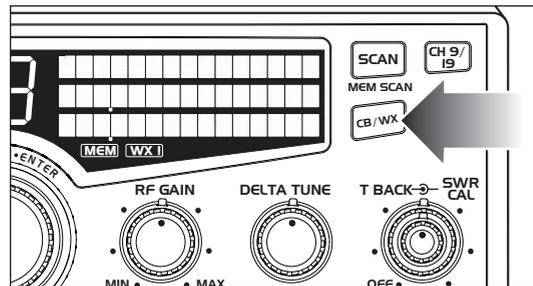
❷ Press the **CB/WX** button to change modes.

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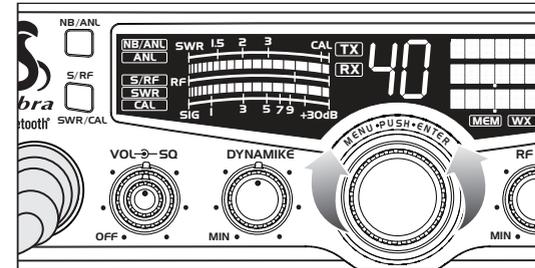
❸ Select one of forty channels and adjust volume. The selected channel (1 through 40) will be indicated by the readout directly above the channel selector knob

Setting Channel Selector

Note

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

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.
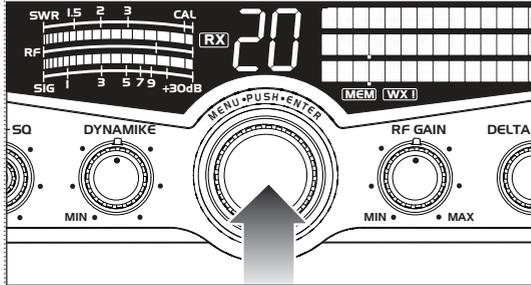
1 Select channel 20.
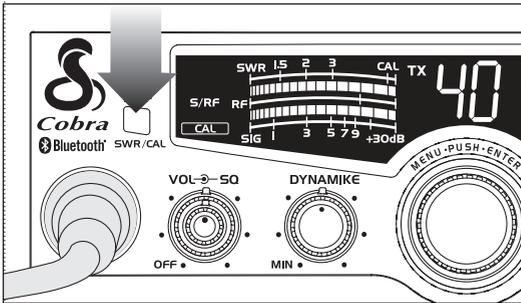
2 Press **SWR/CAL** button to select CAL.

PUSH & HOLD
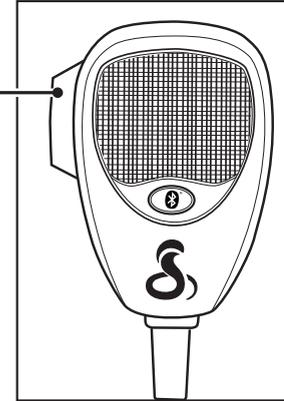
3 *Push and hold* mic button.
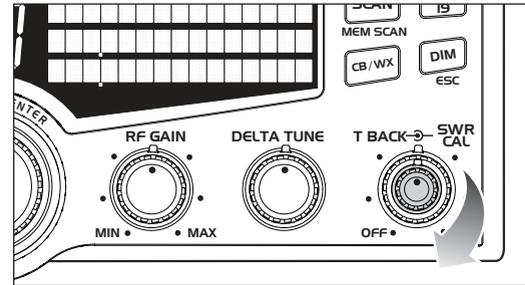
4 While *holding* mic button *adjust* the **SWR CAL** knob so the meter swings to the CAL mark on the meter (located on the right).
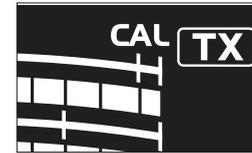
Note

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

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.
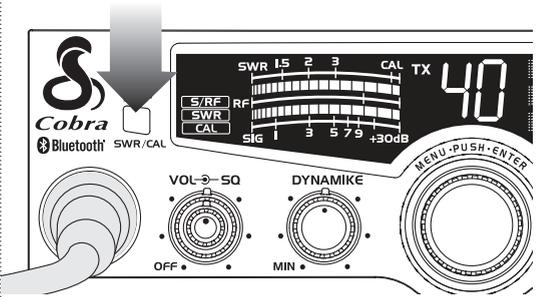
5 Release the PTT button, press and release the **S/RF-SWR CAL** button to the SWR position. Then press the PTT button to read the SWR reading.

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

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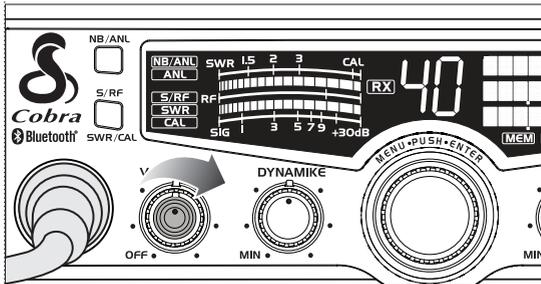
1 Rotate the **On/Off Volume** knob *clockwise*. The RX icon will be displayed.

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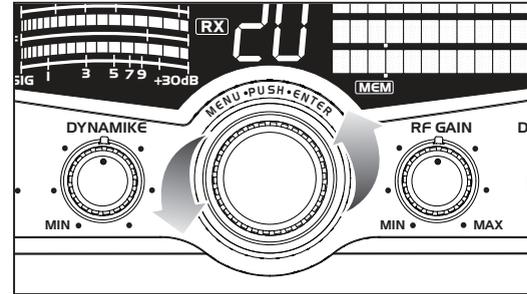
Unit should be in CB mode. Rotate **channel selector** *clockwise* or *counter-clockwise* to select desired channel.

S-Meter

Swings proportionately to strength of incoming signal when receiving.
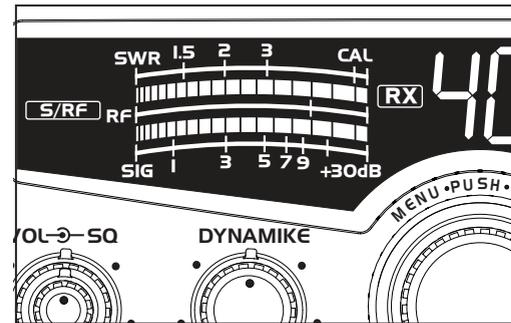
1 The **S/RF-SWR-CAL** switch must be in the S/RF setting to read the meter.

To Transmit

STOP

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
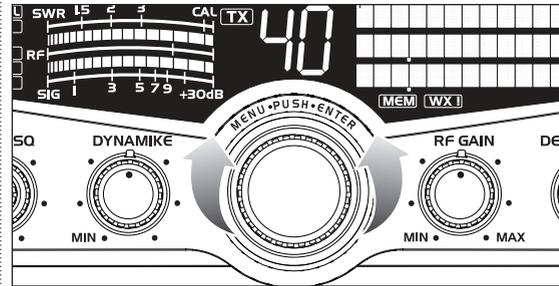
❶ *Select* desired channel.

Transmit

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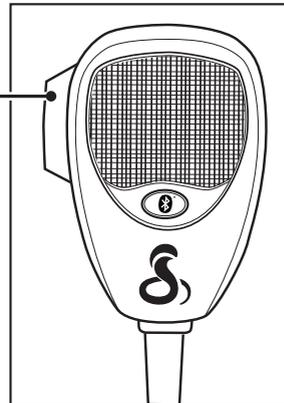
❷ *Push and hold* mic button to transmit. Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. *Release* to receive.

Setting Dynamike®

This controls the microphone sensitivity (outgoing audio level).
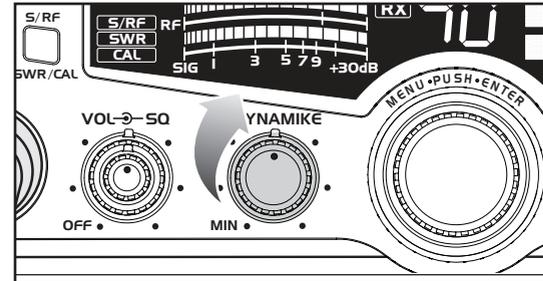
❸ Initially, set fully *clockwise* so that maximum voice volume is available. Dynamike may have to be reduced in some conditions.

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**.
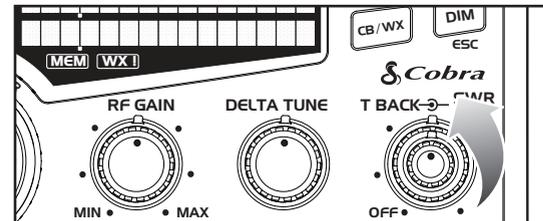
Setting Dynamike®

Setting TalkBack

Menu Mode

Note
Use Dim/Escape button to exit from any routine back to CB standby mode.

Menu Mode
Used to program special features. **Menu/Enter** knob is used to move cursor to desired feature to program.
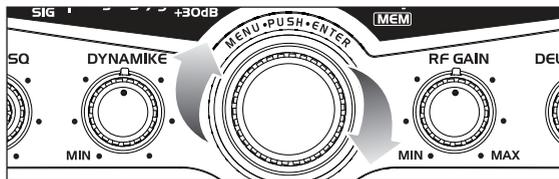
Rotate **Menu/Enter** knob *clockwise* to navigate menu levels.
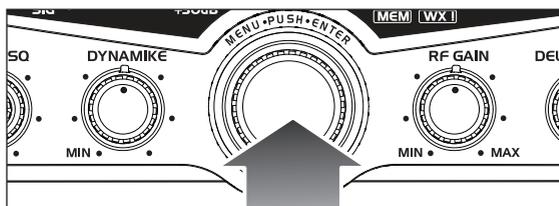
Press **Menu/Enter** knob to select feature to be programmed.

Level 1:
```
▶SET CLOCK
 ALARM CLOCK
 SET COUNT DOWN
```

Level 2:
```
▶KEY TONES
 WX ALERT
 WX ALERT SCAN
```

Level 3:
```
▶WX AUTO SCAN
 DISPLAY COLOR
 BRIGHTNESS
```

Level 4:
```
▶NW LIGHTING
 CONTRAST
 RADIO CHECK
```

Level 5:
```
▶SETTING
 BLUETOOTH
 EXIT
```

Setting the Clock
Using the clock, alarm and countdown functions.

To set the clock, press **Menu/Enter** knob and select **Set Clock**.

```
▶SET CLOCK
 ALARM CLOCK
 SET COUNT DOWN
```
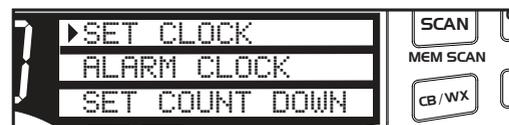
12:00 PM will appear in the display and the hours will flash. Rotate **Menu/Enter** knob *clockwise* to select desired hour and press to set.

The minutes will then flash. Rotate **Menu/Enter** knob again to select desired minutes and press to set.

Once the minutes are set, AM or PM will then flash. Rotate **Menu/Enter** knob again to select **AM** or **PM** and press to set or scroll down to **EXIT** and press to return to main menu.

```
 SET AM-PM
 11:30 PM
▶EXIT
```
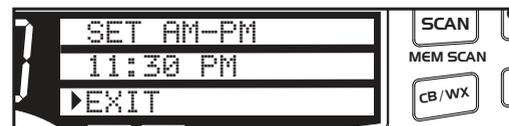
Setting the Alarm
Your 29 LX can be utilized as an alarm clock. To set the alarm, press **Menu/Enter** knob and select **Set Alarm**.

```
 SET CLOCK
▶ALARM CLOCK
 SET COUNT DOWN
```
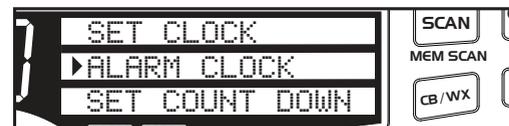
Rotate **Menu/Enter** knob *clockwise* to select **Set Alarm Time.** Follow instructions above for setting the alarm time and AM or PM.

Setting the Clock

Note
Normal display will appear if clock has not yet been set.

Note
Use Dim/Escape button to exit from any routine back to CB standby mode.

Note
The radio should be connected to a constant 12V source to maintain the time when the radio is turned off.

Setting the Alarm

Setting the Alarm *continued*

Note
Default snooze time length is 10 minutes.

Note
Press Dim/Escape button to return to CB standby mode.

Note
Default alarm length is 60 seconds and is set in 10 second increments.

Setting the Count Down Timer

Note
Press Dim/Escape button to return to CB standby mode.

Key Tones Mode

Note
Press Dim/Escape button to return to CB mode.

Once alarm settings are complete, rotate **Menu/Enter** knob *clockwise* to **Set Snooze** and press to select.

```
        EXIT             SCAN
      ▶ SET SNOOZE      MEM SCAN
        ALARM LENGTH     CB/WX
```
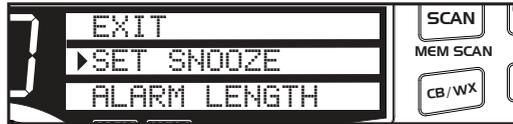
Enter desired snooze time (from 1 to 60 minutes). Select **Enter** to exit, return to Set Snooze or Alarm Length. Select Alarm Length to set alarm duration (from 10 to 300 seconds). Pressing **Menu/Enter** knob returns unit to exit, Set Snooze or Alarm Length.

Setting the Count Down Timer

To set the count down timer, press **Menu/Enter** knob and select **Set Count Down**.

```
        SET CLOCK        SCAN
        SET ALARM       MEM SCAN
      ▶ SET COUNT DOWN   CB/WX
```
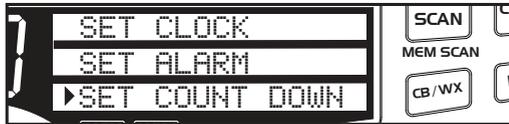
Follow instructions in **Setting the Clock** section (page 17) to set count down hour and minutes. Once desired count down time is selected, press **Menu/Enter** knob again to set and return to the standby menu.

Key Tones Mode On and Off

Press **Menu/Enter** knob and rotate *clockwise* to **Set Key Tones**. Press **Menu/Enter** to set Key Tones **On/Off**.

```
 TX              SET KEY TONES    SCAN
 RX   40        ▶ ON            MEM SCAN
                 OFF             CB/WX
```

Press **Menu/Enter** knob to select **On/Off** and exit to main menu.

Radio Check Mode

Allows testing of important radio functions.

Test 1- Battery Level: Confirms that battery voltage level is between 10.8 V to 15.8 V. If in that range, it is "PASS". Outside of that range, either FAIL LOW" or "FAIL HIGH" will be displayed. Press **Menu/Enter** knob to advance to next test.

❶
```
 40   BATTERY VOLTAGE    SCAN   CH 9/19
      PASS              MEM SCAN
                         CB/WX   DIM
                                 ESC
```

❷
```
 BATTERY VOLTAGE
 FAIL HIGH
```
❸
```
 BATTERY VOLTAGE
 FAIL LOW
```
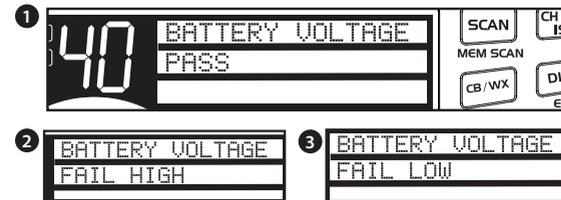
Test 2- RF Power Output: Confirms 3.3 to 4 Watt output level. Once Push-to-Talk button is pressed, Pass or Fail will be displayed if level is outside limits.

❶
```
 40   PRESS PTT          SCAN   CH 9/19
      TO CHECK          MEM SCAN
      POWER OUTPUT       CB/WX   DIM
                                 ESC
```

❷
```
 RF POWER OUTPUT
 PASS
```
❸
```
 RF POWER OUTPUT
 FAIL
```
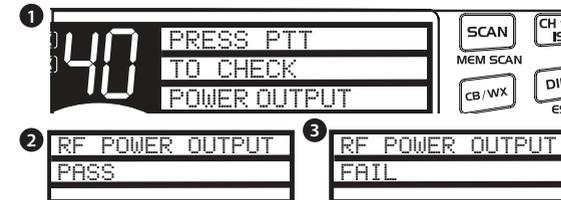
Test 3- Antenna Mismatch Warning: Press **Push-to-Talk** button to check antenna/radio for proper matching.

❶
```
 40   BATTERY VOLTAGE    SCAN   CH 9/19
      PASS              MEM SCAN
                         CB/WX   DIM
                                 ESC
```

❷
```
 ANTENNA
 PASS
```
❸
```
 ANTENNA
 FAIL
```

Radio Check Mode

Note
Press Dim/Escape button to return to CB standby mode. If 10 seconds pass or if Enter button pressed, unit goes to 2nd test.
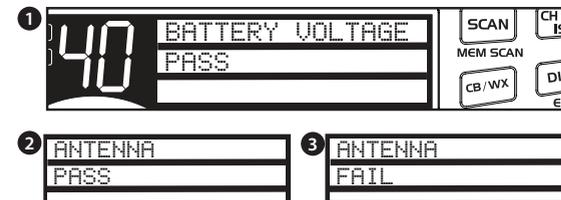
Note
Press Push-To-Talk within 10 seconds or unit will go to the next test.

Note
Press Dim/Escape button to return to CB standby mode. If 10 seconds pass or if Enter button pressed, go to 3rd test.

Note
Press Dim/Escape button to return to CB standby mode. If 10 seconds pass or if Enter button pressed, testing is complete. Unit will return to CB Standby mode.

Setting Display Color Mode

Setting Display Color Mode

①
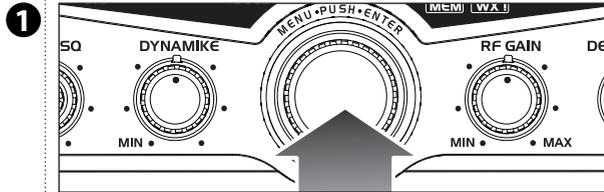
Press **Menu/Enter** knob and scroll down to select **Display Color**.

②

Press and release **Menu/Enter** to set the color.

③
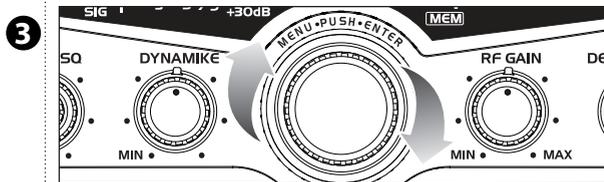
Rotating **Menu/Enter** knob *clockwise* changes the display color from green to blue to amber to red then back to green.

Note
Select EXIT to return to main menu. Press Dim/Escape button to return to CB mode.

④

Press **Menu/Enter** knob or escape button again to exit routine.

Setting Brightness Mode
Press **Menu/Enter** knob to select **Set Brightness**

Rotate **Menu/Enter** knob *clockwise* to **Select Brightness**. Press **Menu/Enter** knob to select **Day-Bright**. Turn **Menu/Enter** *clockwise* to increase brightness and turn *counter-clockwise* to decrease brightness.

To set the day bright level, turn the **Menu/Enter** knob *clockwise* to a desired setting and then press **Menu/Enter.** To set the **Night-Dim level**, repeat instructions above then select **Night-Dim**.
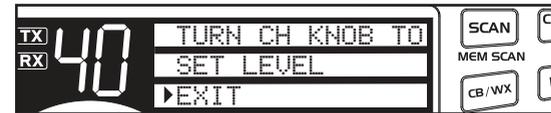
Press **Menu/Enter** knob again to exit routine.

Turn NightWatch Illumination On-Off-Hi-Lo
Press **Menu/Enter** knob and scroll down to select **NW Lighting**.
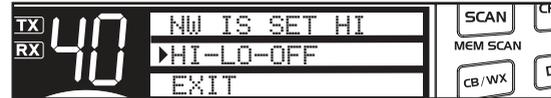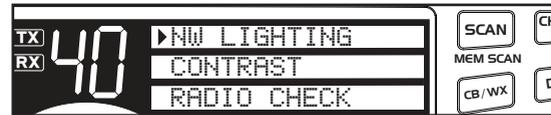
Press **Menu/Enter** knob again to exit routine.

Setting Brightness Mode

Note
If an attempt is made to exceed the highest or lowest brightness levels, 1 error beep will be heard.

Note
Exit will return to menu mode. ESC will exit and return to CB Standby.

Note
To select day or night levels, press and release Dim/Escape button once levels are set.

Turn NightWatch Illumination On/Off

Note
To select HI-LO-OFF, turn menu knob to select and press and release Enter knob.

Setting Contrast Mode

Note

If an attempt is made to exceed the highest or lowest contrast levels, 1 error beep will be heard.

Bluetooth®

Note

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

Note
Dual Point Bluetooth:
Two cell phones can be paired and and used for team drivers.

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.

Note

For Text-to-Speech conversion, an app should be downloaded to your cell phone.

Setting Contrast Mode

Press **Menu/Enter** knob and rotate *clockwise* to select **Set Contrast.** Press **Menu/Enter** knob again and rotate *clockwise* to increase contrast, *counter-clockwise* to decrease contrast.
Press **Menu/Enter** knob to set contrast.

```
TX          TURN CH KNOB TO      SCAN   CH
RX   47     SET CONTRAST         MEM SCAN
```
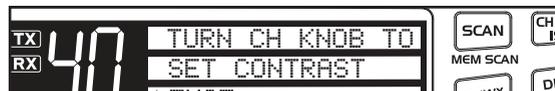
Press **Menu/Enter** knob again to exit routine.

Bluetooth®

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

```
        READY FOR       SCAN
  40    PAIRING          MEM SCAN
        PW 0000          CB/WX

BT Button
```

To Pair with a Cell Phone

With 29 LX BT power On, press and hold the BT Button for six seconds to enter Standby mode. A tone will sound to confirm entry to Standby.

A. First time pairing with a cell phone:

  I. A tone will sound 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 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 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 LX BT speaker.

2 Speak into the 29 LX BT microphone. The CB function of the unit and PTT Button will be disabled while a call is in progress.

3 Press and release of the BT Button to end the call. A tone will sound.

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 LX BT speaker.

2 Press Send on the cell phone send key a few seconds, you will hear the ring tone for the number you dialed on the CB speaker.

Once connected, speak into the microphone.

3 Press and release of the BT Button to end the
4 call. A tone will sound.

Press and hold the BT Button for two seconds to
5 redial a number. 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.

Note

When cell phone calls are in progress using the Bluetooth features, the CB functions of the unit are disabled until the phone call is put on hold (see page 24).

Note

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

Bluetooth®
continued

Note
If, while on hold the call is dropped, you will hear a sound beep and the CB radio will return to standby.

A2DP Audio Streaming

Allows for voice Caller ID, e-mails and text messages to be read through the CB radio.

Note
A third party app download is required in order for this feature to be functional.

To Place a call on Hold
The display will show:
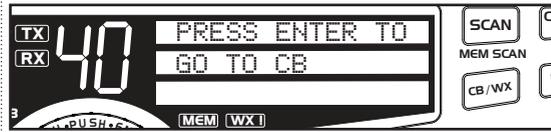
Press **Enter** knob. This puts the call on hold allowing CB communication.

To Return to Phone Call
The display will show:

Press **Menu Enter** knob again.

To Turn Bluetooth Off on the Radio:

Press **Menu/Enter** and select Bluetooth:

Press **Menu/Enter** again and select Bluetooth:

Press and select **Off**.

Weather Alert

What You Should Know About Weather

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

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

Your 29 LX BT has a special auto squelch circuit for weather transmission which disables your squelch control.

Weather Alert Scan

The unit will continually scan all 10 WX channels for 1050 Hz tone. If the tone is detected the unit will activate WX mode on the channel with the tone. Default state is **Off**. Go to Menu mode to choose **On/Off** (see page 22):
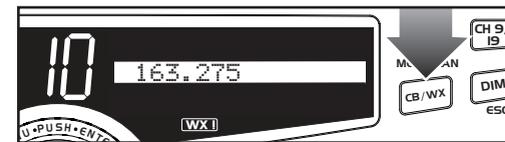
Weather Auto Scan

If active while in CB mode, will determine if the present WX channel is active. If the present WX channel is not active, will search for the strongest WX channel and auto change to that channel. Default is off. Go to Menu mode to choose on/off (see page 22).

Weather Information

Note
If you wish to receive a listing of NOAA 'Weather Radio Transmitter locations, contact your nearest National Weather Service Office or write to: National Weather Service (Attn: W/OM11) NOAA Silver Springs, MD 20910.

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

Weather Channels

What is Weather Radio?

NOAA Weather Radio (NWR) is a service of the National Oceanic and Atmospheric Administration (NOAA), of the U.S. Department of Commerce. 380 NWR stations are in operation by the U.S. Government in addition to several NWR stations that are maintained by private interest groups. The capability is to supplement warnings by sirens and by commercial radio and television. The 10 National Weather Channels provide full coverage to keep you informed of weather conditions, 24 hours a day, 7 days a week.

Weather Alert Mode

Note
Press Dim/Escape button to return to CB mode.

Setting Weather Alert Scan

Note
If an alert is detected the unit will activate WX mode on the channel with the alert. Use Menu/Enter knob to select On/Off and press to set.

Note
Press Dim/Escape button to return to CB mode.

Setting Weather Auto Scan

Note
Press Dim/Escape button to return to CB mode.

Setting Weather Alert Mode
Turns WX Alert On/Off. Default is **Off**.
Press **Menu/Enter** knob to select **Set WX Alert**.
If Weather is **On**, WX Alert Icon will be displayed.

Press **Menu/Enter** knob to select **On/Off** and exit to main menu.

Setting Weather Alert Scan
Press **Menu/Enter** knob and rotate *clockwise* to **WX Alert Scan**. Press **Menu/Enter** knob to select **On/Off**.

Press **Menu/Enter** knob to select **On/Off** and exit to main menu.

Setting Weather Auto Scan
Press **Menu/Enter** knob and rotate *clockwise* to **WX Auto Scan**. Press **Menu/Enter** knob to select **On/Off**.

Press **Menu/Enter** knob to select **On/Off** and exit to main menu.

Software Version/Factory Settings
Displays current software version and returns unit to original factory settings. To view software version, rotate **Menu/Enter** knob *clockwise* to select **Settings** then **Software Version**.

To restore default settings, Press **Menu/Enter** knob again. Rotate **Menu/Enter** knob *clockwise* to select **Settings** then **Go To Default**.
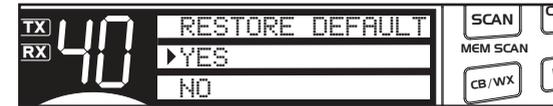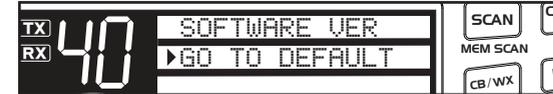
Press **Menu/Enter** knob to restore default settings. Choose **NO** to maintain present setting with no change.

Software Version/Factory Settings

Note
Default display color is green.

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

Note

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

NB-ANL/OFF (Noise Blanker/Automatic Noise Limiter) Button
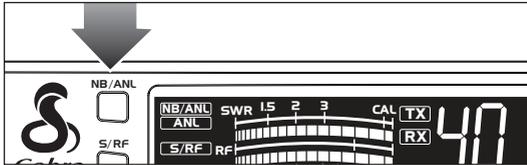
When *switched* to ANL the Automatic Noise Limiter is activated. This helps reduce noise created by the vehicle's electronics.

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

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

Setting Delta Tune

Setting Delta Tune

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

RF Gain Control

RF Gain Control

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

Note

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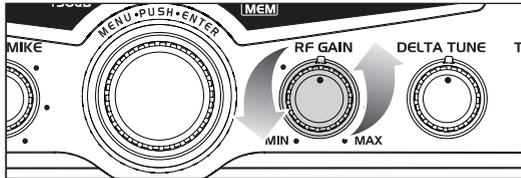
*Rotate* the RF Gain knob *counterclockwise* to reduce gain in strong signal areas. In weak signal areas turn *clockwise* to increase gain.

Program Memory Channels

Set first channel. Press and hold **Scan/MemScan** button. Memory icon will appear. Select second channel, press and hold **Scan/MemScan** button again until Memory icon appears. Repeat above steps to enter up to 10 channels in memory.
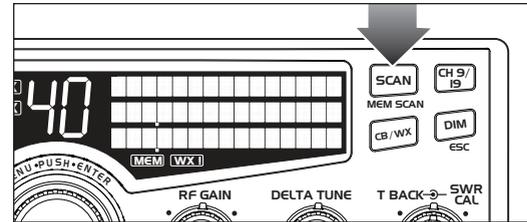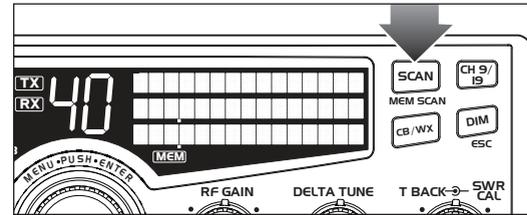
❶ Pressing the **Scan/Memory Scan** button toggles from **Off** to **Scan All Channels** to **Memory Channel Only Scan** and back to **Off**.
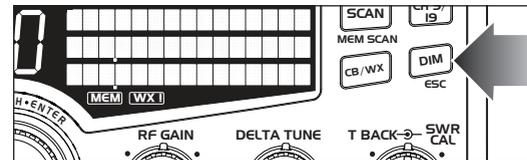
❷ Press **Dim/Escape** button to end Scan and return to CB mode.

Program Memory Channels

Note

The radio should be squelched before scan features are activated.

Note

Keying the microphone will stop the scan feature.

Note

If more than 10 channels are attempted to be programmed, 3 error beeps will be heard and "Memory Full" will be displayed for 10 seconds or until any button is pushed.

Note

To remove a channel from memory, go to the unwanted memory channel then press and hold the scan button until the MEM icon turns off.

Note

If in WX mode the unit will scan Weather channels.

Scan CB Channels

Scan CB Channels

To scan all 40 CB channels, the unit must be squelched. Press and release **Scan/Mem Scan** button once.
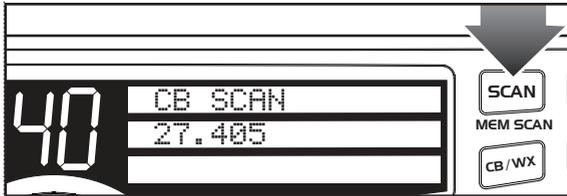
Scan Memory Channels

Scan Memory Channels

To scan memory channels, press and release **Scan/Mem Scan** button twice.

Dimmer Control

Dimmer Control
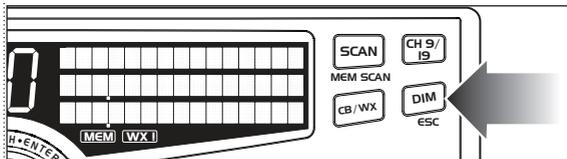
❶ Press **Dim/Esc** button to toggle between day and night settings.

See setting instructions on page 21.

Setting Squelch

Squelch is the "control gate" for incoming signals.
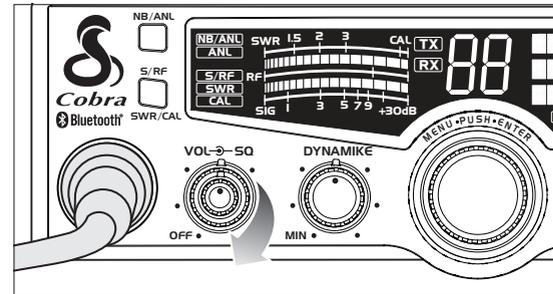
❶ Full *clockwise* rotation closes the gate allowing only very strong signals to enter.
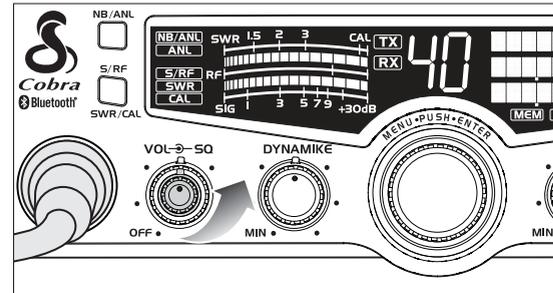
❷ Full *counterclockwise* rotation opens the "gate" allowing all signals in.

Setting Squelch

Gate closed
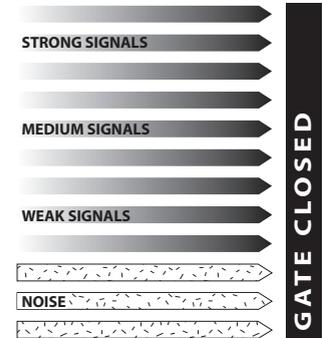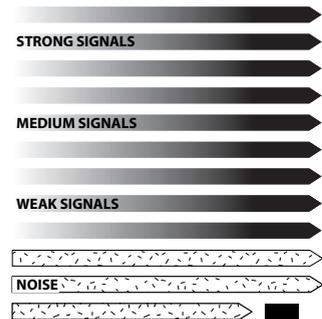
Gate open

Setting Squelch
Continued

Gate set to Desired Squelch Setting (DSS)

STRONG SIGNALS

MEDIUM SIGNALS

WEAK SIGNALS

NOISE

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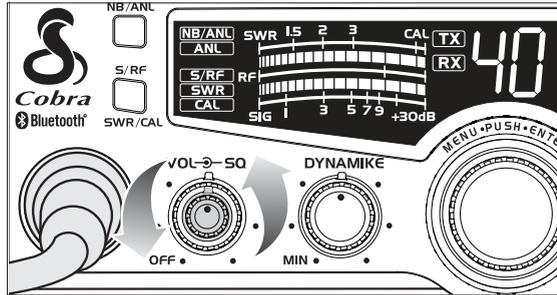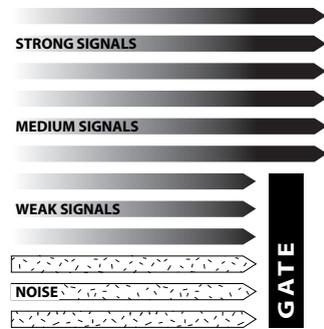
❸ To achieve the Desired Squelch Setting (DSS), turn the Squelch control *counterclockwise* until you hear noise. Now turn the control *clockwise* just until the noise stops. This is the DSS setting.

S/RF Meter

S/RF Meter

This meter swings proportionately to the RF output (outgoing signal) while transmitting.
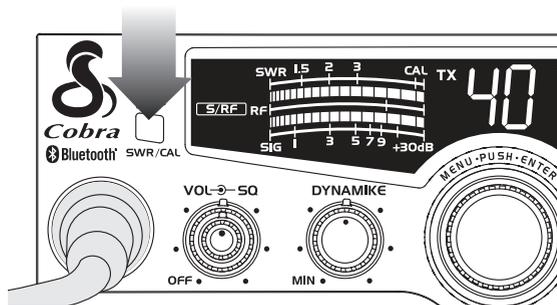
❶ The **S/RF-SWR-CAL** button must be in the S/RF mode.

External Speaker

The external speaker jack is used for remote receiver monitoring.
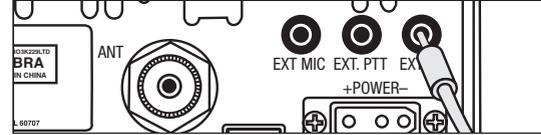
Connect an external speaker to the external speaker jack on the rear panel.

External Push-to-Talk Jack

The external push-to-talk jack is used for remote transmit function with optional PTT (see accessory page 44) and when the external microphone is connected.

Connect an external push-to-talk to the external push-to-talk jack on the rear panel.

External Microphone Jack

The external microphone jack is used to connect the supplied external microphone for phone use only. When the external PTT (above) is connected, the external microphone can be used for both CB and phone voice transmissions.`
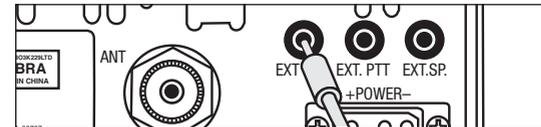
Connect the external microphone (included) to the external microphone jack on the rear panel.

External Speaker

Note

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

Note

Cobra external speakers are rated at 10 watts.

Note

USB Output:
This jack is used to charge or power most 5 Volt USB devices.

Base Station Operation (From 120V AC House Current)

STOP

Warning!

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

Note

For further information call Cobra Customer Service 1.773.889.3087.

Base Station Operation (From 120V AC House Current)

To operate your transceiver from home or office you will need a 13.2 volt DC Power Pack rated at a minimum of 2 amps, and a properly installed base station antenna.

power pack

+ —
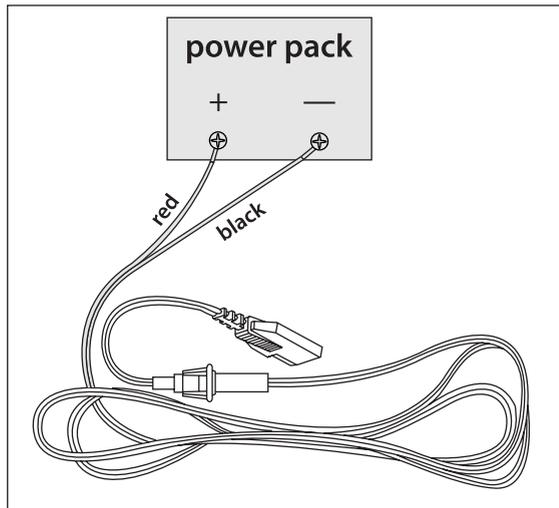
red black

1 Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack.
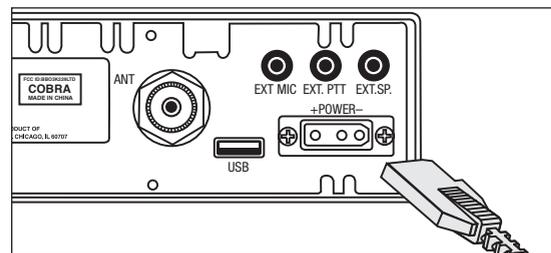
2 Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.

3 Connect properly installed and matched base station antenna.

Temporary Mobile Operation

For temporary mobile operation you may want to purchase an optional cigarette lighter adapter from your COBRA dealer. This adapter and a magnetic mount antenna allow you to quickly "install" your transceiver for temporary use.
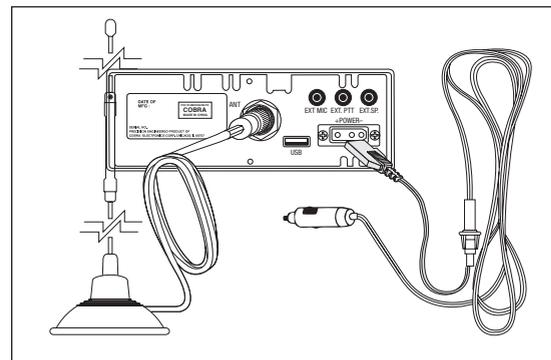
Temporary Mobile Set-Up

- 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

A Few Rules You Should Know

A. Conversations cannot last more than 5 minutes with another station. A one minute break is required to let others use the channel.

B. You cannot blast others off the air by use of illegally amplified transmitters or illegally high antennas.

C. You cannot use CB to promote illegal activities.

D. Profanity is not allowed.

E. You may not transmit music with a CB.

F. Selling of merchandise and/or services is prohibited.

Channel 9 Emergency Messages

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.

Note

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

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. 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

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

The Cobra 29 LX 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	WX Channel	Freq. In MHz
1	26.965	21	27.215	1	162.550
2	26.975	22	27.225	2	162.400
3	26.985	23	27.255	3	162.475
4	27.005	24	27.235	4	162.425
5	27.015	25	27.245	5	162.450
				6	162.500
6	27.025	26	27.265	7	162.525
7	27.035	27	27.275	8	161.650
8	27.055	28	27.285	9	161.775
9	27.065	29	27.295	10	163.275
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		

GENERAL

CHANNELS	CB - 40 CH
FREQUENCY RANGE	CB - 26.965 TO 27.405 MHZ
	WX - 162.400 TO 162.775 MHZ
FREQUENCY TOLERANCE	0.005 %
FREQUENCY CONTROL	PLL (PHASE LOCK LOOP) SYNTHESIZER
OPERATING TEMPERATURE RANGE	-30° C TO + 50° C
MICROPHONE	Plug-in Electret
INPUT VOLTAGE	13.2VDC nom. (positive or negative ground)
Current Drain	Transmit: AM full mod., 1.5A (maximum)
	Receive: Squelched, 0.3A; full audio output, 1.2A (nominal)
Size	8-5/8" D x 7-9/32" W x 2-13/63" H
Weight	4 lbs.
Antenna Connector	UHF; SO-239
Meter	Indicates relative power output received signal strength, and vswr

TRANSMITTER

Power Output	4 watts
Modulation	AM (Amplitude Modulation)
Frequency Response	300 to 3000 Hz
Output Impedance	50 ohms, unbalanced

RECEIVER

Sensitivity	Less than 1 µV 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 range	40 db
Noise Blanker	RF type
Squelch	Adjustable; threshold less than 1µV
Audio Output Power	4 watts
Frequency Response	300 to 3000 Hz
Distortion	Less than 7% @3 watts @ 1000 Hz
Built-in Speaker	8 ohms, 5w
External Speaker (Not supplied)	8 ohms; disables internal speaker when connected

PA SYSTEM

Power Output	4 watts into external speaker
External Speaker for PA (Not Supplied)	8 ohms 4 Watts min. the PA speaker also monitors the receiver; separate jack provided

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

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 44.

COBRA ELECTRONICS CORPORATION warrants that its Cobra CB Radios, and the component parts thereof, will be free of defects in workmanship and materials for period of two (2) years from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

Cobra will, without charge, repair or replace, at its option, defective CB radios, products or component parts upon delivery to the Cobra factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

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

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

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

Cobra Electronics Corporation

6500 West Cortland Street Chicago, Illinois 60707 www.cobra.com
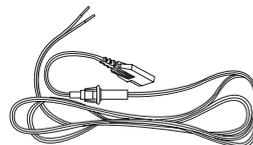
Replacement DC Power Cord

For in vehicle use 426-002-N-001
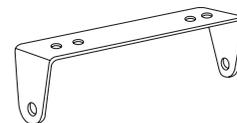
Replacement Mounting Bracket

For in vehicle use 251-353-9-001
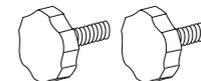
Replacement Thumb Screws

For in vehicle use 634-081-9-001
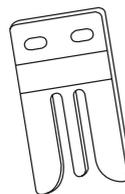
Replacement Microphone Bracket

For in vehicle use 741-080-9-001

21" Base Loaded Magnet Mount Antenna

HG A1000

38" Base Loaded Magnet Mount Antenna

HG A1500

Dynamic External Speaker

HG S100

Noise Canceling External Speaker

HG S300

Noise Canceling With Talk Back External Speaker

HG S500

Cobra® 29 LX BT

If You Think You Need Service

> For technical assistance, please call our Automated Help Desk which can assist
> you by answering the most frequently asked questions about Cobra products.
> **(773) 889-3087**
> 24 hours a day, 7 days a week.
> A Consumer Service Representative can be reached through this same number
> 8:00 am - 5:30 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 1.773.889.3087**

"If your product should require factory service please call Cobra first before sending your unit in. This will ensure the fastest turn-around time on your repair."

You may be asked to send your unit to the Cobra factory. It will be necessary to furnish the following in order to have the product serviced and returned.

1. For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon or a sales receipt. If you send the original receipt it cannot be returned.

2. Send the entire product.

3. Enclose a description of what is happening with the unit. Include a typed or clearly print name and address of where the unit is to be returned.

4. Pack unit securely to prevent damage in transit. If possible, use the original packing material.

5. Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or First Class Mail: to avoid loss in transit to: Cobra Factory Service, Cobra Electronics Corporation, 6500 W. Cortland St., Chicago, IL 60707.

6. If the unit is in warranty, upon receipt of your unit it will either be repaired or exchanged depending on the model. Please allow approximately 3 to 4 weeks before contacting us for status. If the unit is out of warranty a letter will automatically be sent informing you of the repair charge or replacement charge. If you have any questions, please call 1.773.889.3087 for assistance.

Trademark Info

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

Operating Instructions for your
Cobra 29 LX BT CB Radio
with Bluetooth® Wireless Technology

U.S. Patent No. 8078120, D625279, D630202, D630625

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Part No. 480-759-P Version H

Nothing Comes Close to a Cobra®

The CB Story
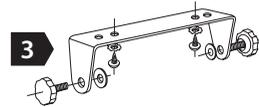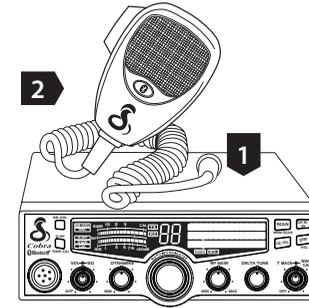
The Citizens Band lies between the shortwave broadcast and 10-meter Amateur radio bands, and was established by law in 1949. The Class D two-way communications service was opened in 1959. (CB also includes a Class A citizens band and Class C remote control frequencies.)

FCC Regulations
FCC regulations permit only "transmissions" (one party to another) rather than "broadcasts" (to a wide audience). Thus, advertising is not allowed on CB Channels because that is "broadcasting."

FCC Warnings
All transmitter adjustments other than those supplied by the manufacturer as front panel operating controls, must be made by, or under the supervision of, the holder of an FCC-issued General Radio-Telephone Operator's License.

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

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

What's Included with Your 29 LX BT
1. CB transceiver
2. Microphone
3. Transceiver bracket
4. Microphone bracket
5. External Microphone
6. Operating Manual
7. DC power cord
8. FCC rules (not shown)

Controls and Indicators

Front Side

1. *6-Pin Microphone Connector*
2. *Power On/Off, Volume*
3. *Squelch*
4. *Dynamike*
5. *Menu/Enter/Channel Selector*
6. *RF Gain*
7. *Delta Tune*
8. *Talk Back Control*
9. *SWR Calibration*
10. *Dim/Escape Button*
11. *Channel 9/Channel 19 Button*
12. *Scan/Memory Scan*
13. *CB/WX Weather Button*
14. *LCD Display*
15. *RX (Receive)/TX (Transmit), Indicators*
16. *Signal Strength Meter*
17. *NB/ANL Button*
18. *S/RF SWR CAL Button*
19. *Microphone*

Back Side

20. *External Push-To-Talk Jack*
21. *External Speaker Jack*
22. *Antenna Connector*
23. *Power Jack*
24. *External Microphone Jack*
25. *USB Connector*
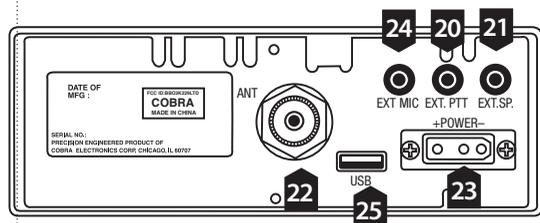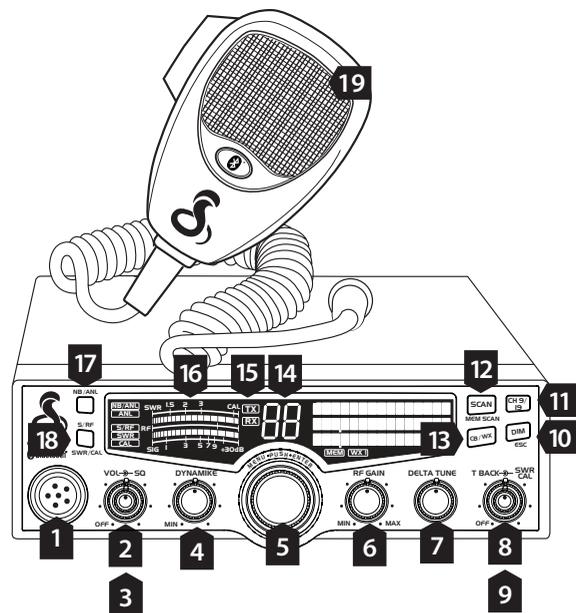
Our Thanks to You

Thank you for purchasing the Cobra 29 LX BT CB Radio with **Bluetooth**® Wireless Technology. 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.

NOTE
This device complies with part 15 of the FCC Rules. Operation is subject to the following two (2) 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.

The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Cobra Customer Service

Live operators are available M-F 8:00 am - 5:30 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

Optional Accessories

External Push-to-Talk Assembly
For in vehicle use
CA MS4 PTT

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 5:30 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