Features of This Product

- Selectable 4-Color LCD Display
- Advanced **Bluetooth**® Connectivity
- Rewind-Say-Again®
- Memo Record
- iRadar App Integration
- Report Feature
- 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
- Multi-Function Heavy-Duty Electret Microphone with Phone, Rewind-Say-Again® & Report Functions
- 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
- External Push-To-Talk Jack
- External Microphone Jack

Bluetooth® Features

- Dual Point **Bluetooth**®
- Caller I.D.
- A2DP Audio Streaming
- Phone Directory

Location

Plan a location of the transceiver and microphone bracket before starting the installation.

Select a location that is convenient for operation, yet does not interfere with the driver or the passenger.

The transceiver is usually mounted to the underside of the dash with the microphone bracket beside it.

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.

CB Transceiver
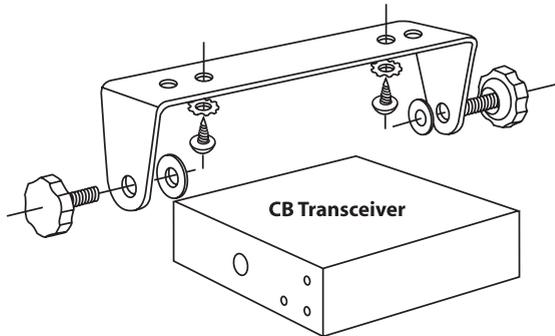
2 Drill the pilot and secure the bracket.

ANT   EXT MIC   EXT. PTT   EXT.SP.
+POWER–
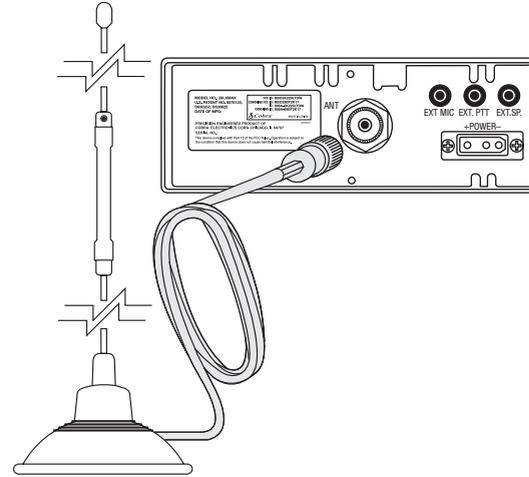
3 Connect the antenna cable plug to the receptacle marked "ANT" on the back of the unit.

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.

Note

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

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.

Note

The Clock/Timer feature needs to be reset when connected to a switched accessory fuse.

fuse box

chassis

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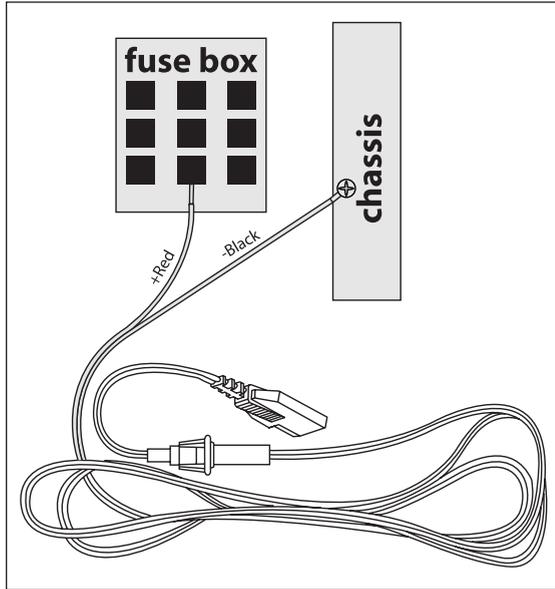
4 Connect the red lead of the DC power cord to an accessory 12 volt fuse or directly to the battery.

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.

ANT   EXT MIC EXT. PTT EXT.SP.
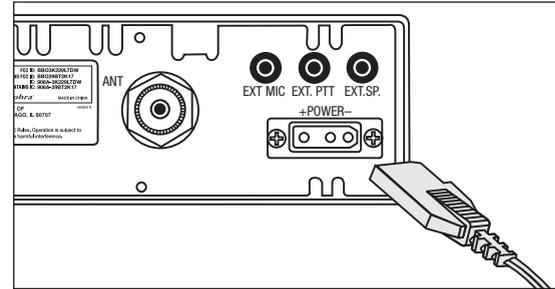
+POWER–

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

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

Note

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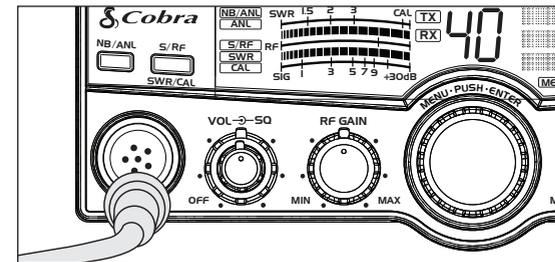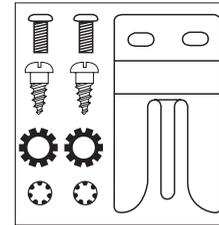
8 Attach the microphone cable to the receptacle on the front of the unit and install the unit in the bracket securely.

CB Antenna

Since the maximum allowable power output of the transmitter is limited by the FCC, the antenna is critical in affecting the transmission distance. Only a properly matched antenna system will allow maximum power output. 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.
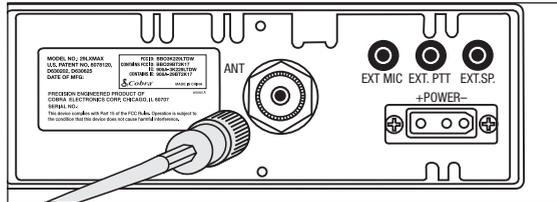
❶ A standard antenna connector is provided on the transceiver for easy connection.

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 the 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 MAX has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications challenging. Many possibilities exist and variations between vehicles require different solutions. Consult with your Cobra dealer or radio technician for help in locating the source of severe noise.

Marine Installation

The transceiver will not operate at maximum efficiency in a boat without a ground plane, (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.

Turning On the Radio

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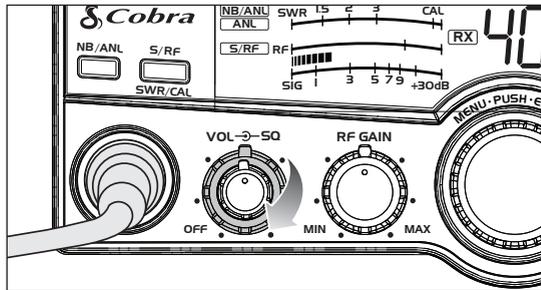
1 Rotate the **On/Off Volume** knob *clockwise* to turn the unit on and adjust to a normal listening level.
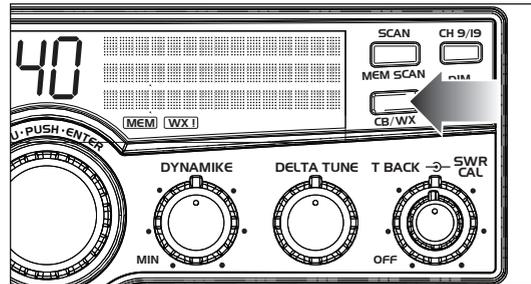
2 Press the **CB/WX** button to change between CB and weather modes.

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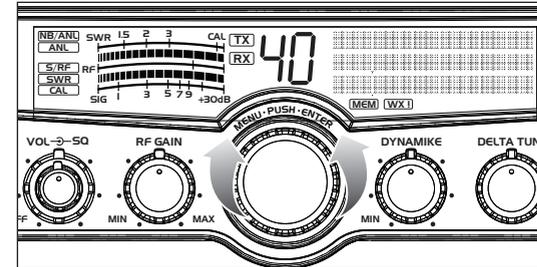
3 Select one of forty channels. The selected channel (1 through 40) will be indicated by the readout directly above the channel selector knob

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.
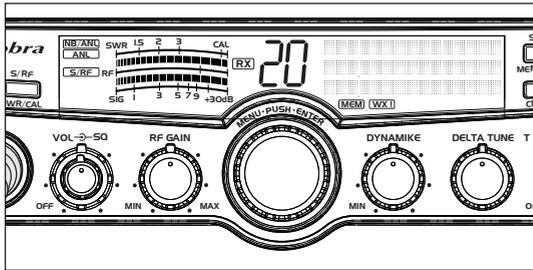
1 Set the radio to channel 20.
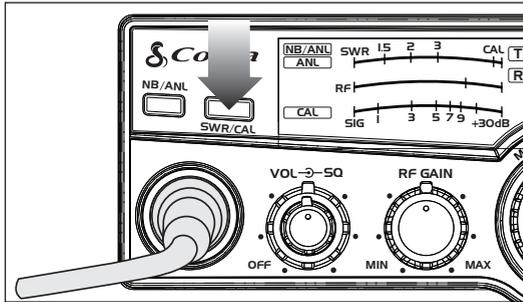
2 Press **SWR/CAL** button to select **CAL**.

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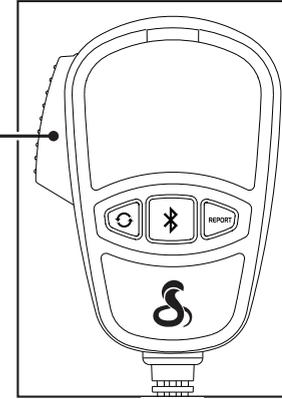
3 *Push and hold* the mic button.
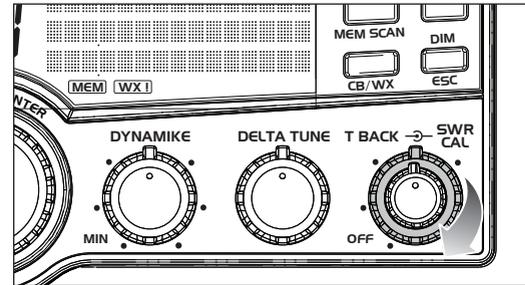
4 While *holding* the mic button *adjust* the **SWR CAL** knob so the meter swings to the **CAL** mark on the right side of the meter.

CAL **TX**
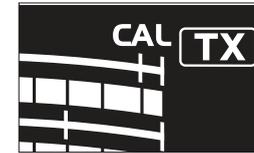
Note

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).

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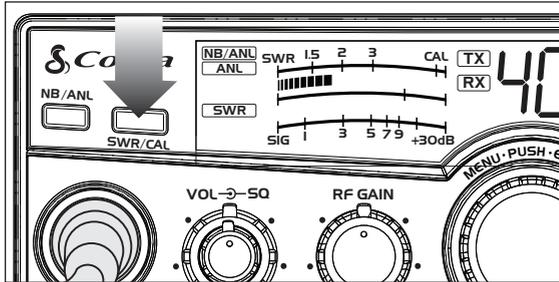
5 Release the PTT button and press and release the **S/RF-SWR CAL** button to the SWR position. Then press the PTT button to read the SWR reading.

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

To Receive
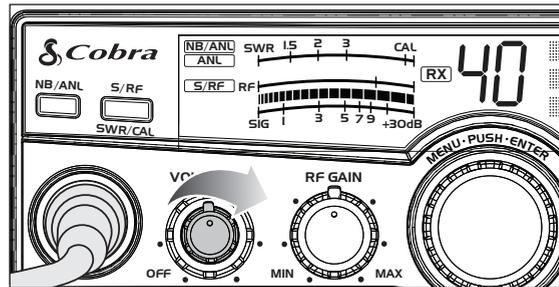
1 Rotate the **On/Off Volume** knob *clockwise.* While receiving, the RX icon will be displayed and the lower portion of the meter will show the incoming signal strength.

Selecting A Channel
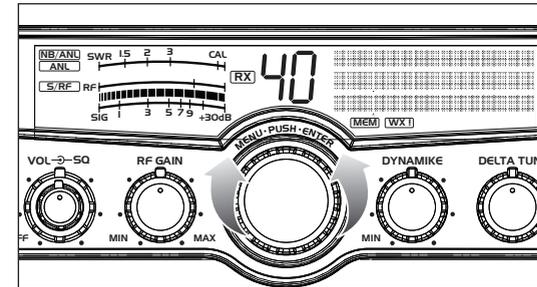
1 Rotate the **channel selector** *clockwise* or *counter-clockwise* to select the desired channel.

S-Meter

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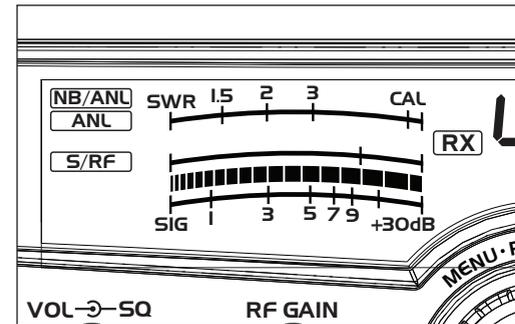
1 The **S/RF-SWR-CAL** button must be set in the S/RF setting to read the meter.

Caution!

Be sure the antenna is properly connected to the radio before transmitting. 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
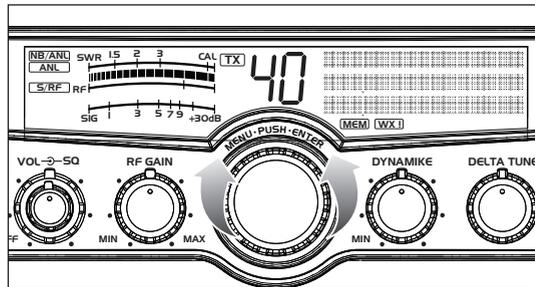
1 *Select* a desired channel.

Transmit

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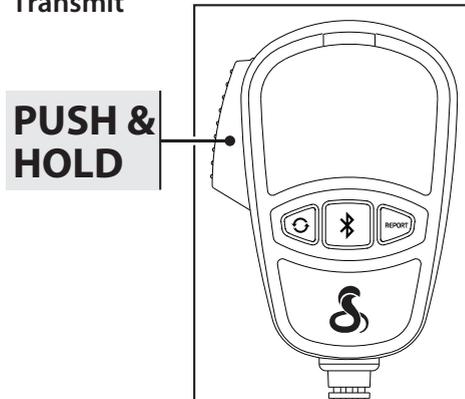
2 *Push and hold* the mic button to transmit. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. *Release* the mic button to receive.

Setting Dynamike®

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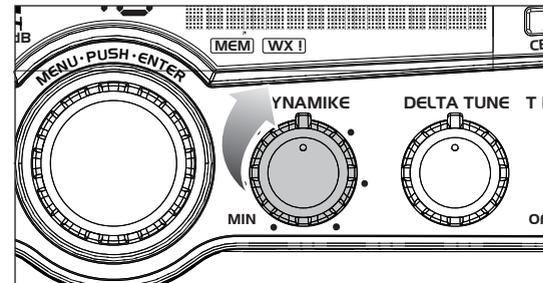
3 Initially, set Dynamike fully *clockwise* so that maximum voice volume is available. The Dynamike may have to be reduced in some conditions.

Setting TalkBack

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

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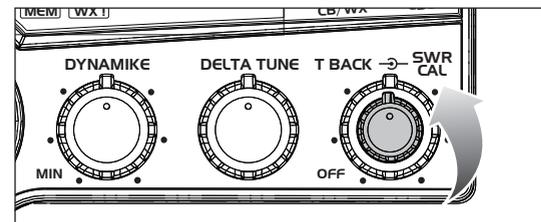
Menu Mode

Rotating **Menu/Enter** knob is used to move the cursor. Pressing the **Menu/Enter** knob is used to enter the menu and to select.
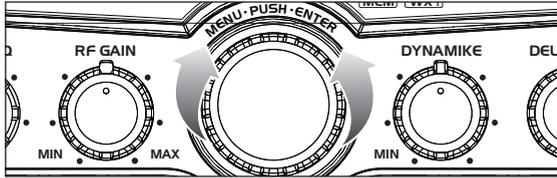
Rotate the **Menu/Enter** knob *clockwise* and *counter-clockwise* to navigate the menu levels.
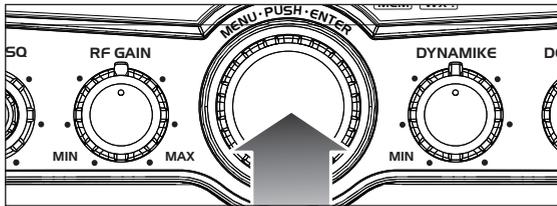
Press the **Menu/Enter** knob to select.

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
```
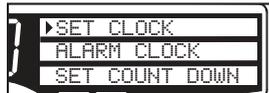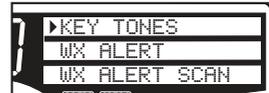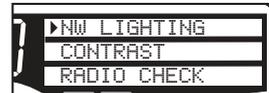
Level 5:
```
▶SETTING
 BLUETOOTH
 EXIT
```
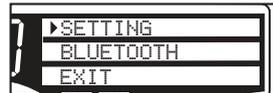
Setting the Clock

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

```
 CLOCK IS OFF
▶SET CLOCK
 TURN CLOCK ON
```
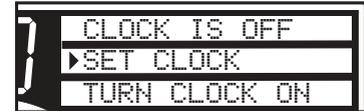
Press again to set the clock.

• Rotate the **Menu/Enter** knob to select the hour, minutes and AM/PM.

• Press the **Menu/Enter** knob to save each value.
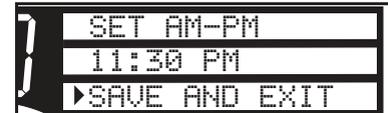
```
 SET AM-PM
 11:30 PM
▶SAVE AND EXIT
```

Press the **Menu/Enter** knob to **SAVE** and **EXIT**.

Setting the Alarm

Your 29 LX MAX can be utilized as an alarm clock.

To set the alarm, press the **Menu/Enter** knob and select **Alarm Clock**.

```
 ALARM IS OFF
▶SET ALARM TIME
 TURN ALARM ON
```
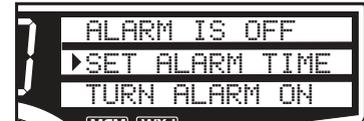
Press **SET ALARM TIME**.

• Rotate the **Menu/Enter** knob to select a value.

• Press the **Menu/Enter** knob to save.

Press the **Menu/Enter** knob to set **AM/PM**. Press **Menu/Enter** knob to **save** and proceed to setting the **Set Snooze Length** or **EXIT**.

Setting the Alarm *continued*

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

```
    EXIT
  ▶ SET SNOOZE
    ALARM LENGTH
```
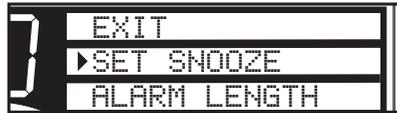
Select the desired snooze time (from 1 to 60 minutes). Press **Enter** to save and exit, return to Set Snooze or Alarm Length. Select Alarm Length to set the alarm duration (from 10 to 300 seconds). Press the **Menu/Enter** knob save and exit.

Setting the Count Down Timer

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

```
    SET CLOCK
    ALARM CLOCK
  ▶ SET COUNT DOWN
```

Follow the instructions in **Setting the Clock** section (page 17) to set the count down hour and minutes. Once the desired count down time is selected, press the **Menu/Enter** knob again to save and exit.

Key Tones Mode On and Off

Press the **Menu/Enter** knob and select **Key Tones**. Press the **Menu/Enter** to set Key Tones **On/Off**.

```
TX        SET KEY TONES
RX      ▶ ON
          OFF
```
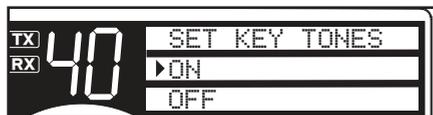
Rotate the **Menu/Enter** knob to select **On/Off** and press the **Menu/Enter** knob to exit to main menu.

Note
Default snooze time length is 10 minutes.

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

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

Note
Once count down time is complete, there will be audio tones for 5 seconds.

Radio Check Mode

Allows testing of important radio functions. Press **Menu/Enter** knob and select **RADIO CHECK**.
Press **Menu/Enter** to select **1st test, 2nd test** and **3rd test**.

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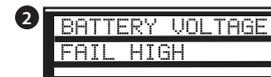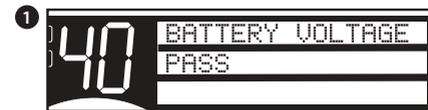
Test 2- RF Power Output: Confirms a 3.3 to 4 Watt output level. Once the Push-to-Talk button is pressed, Pass or Fail will be displayed if the level is outside the limits.

❶
```
    PRESS PTT
    TO CHECK
    POWER OUTPUT
```
❷
```
RF POWER OUTPUT
PASS
```
❸
```
RF POWER OUTPUT
FAIL
```
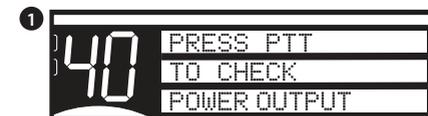
Test 3- Antenna Mismatch Warning: Press the **Push-to-Talk** button to check for proper matching.
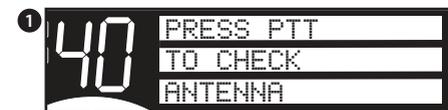
❶
```
    PRESS PTT
    TO CHECK
    ANTENNA
```
❷
```
ANTENNA
PASS
```
❸
```
ANTENNA
FAIL
```

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

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

Setting the Display Color Mode

1
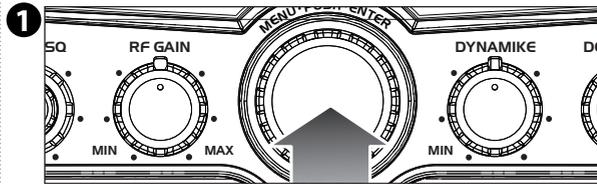
Press the **Menu/Enter** knob and select **Display Color**.

2

WX AUTO SCAN
▸DISPLAY COLOR
BRIGHTNESS

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

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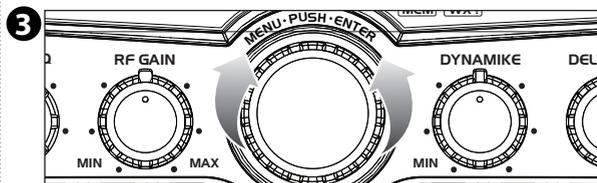
Rotating the **Menu/Enter** knob changes the display color from green to blue to amber to red then back to green.

4

SET COLOR
GRN-BLUE-AMB-RED
▸SAVE AND EXIT

Press the **Menu/Enter** knob to save and exit and set the **Brightness** mode.

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

WX AUTO SCAN
DISPLAY COLOR
▸BRIGHTNESS

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

SET BRIGHTNESS
▸DAY-BRIGHT
NIGHT-DIM

To set the **Night-Dim** level, select **Night-Dim** then repeat instructions above.

SET BRIGHTNESS
▸SAVE AND EXIT
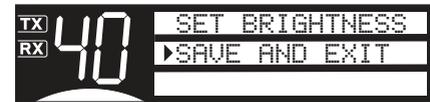
Press **Menu/Enter** knob to save and exit routine. Press **ESC** to exit menu without saving.

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

▸NW LIGHTING
CONTRAST
RADIO CHECK

NW IS SET HI
HI-LOW-OFF
▸SAVE AND EXIT
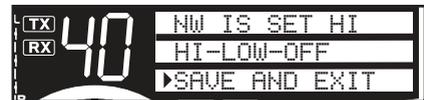
Rotate the **Menu/Enter** knob *clockwise* to change the setting to **HI-LO** or **OFF**.

Press the **Menu/Enter** knob to save and exit.

Note
Exit will return to the previous menu mode. Use Dim/Escape button exit and return to CB Standby.

Note
To select HI-LO-OFF, rotate Menu/Enter knob to change the setting. Press and release the Menu/Enter knob to set the Nightwatch® illumination level, save and exit.

Setting Contrast Mode

Press the **Menu/Enter** knob and rotate *clockwise* to select **Set Contrast.**

```
TX
RX  40   NW LIGHTING
         ▶CONTRAST
         RADIO CHECK
```

Rotate the **Menu/Enter** knob *clockwise* to increase contrast, *counter-clockwise* to decrease contrast.
Press the **Menu/Enter** knob to save and exit and continue settings or **ESC** to exit **Menu** mode.

```
TX
RX  40   SET CONTRAST
         ————
         ▶SAVE AND EXIT
```

Bluetooth®

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

```
40   READY FOR
     PAIRING
     PW 0000
```

BT Button ——— [REPORT]
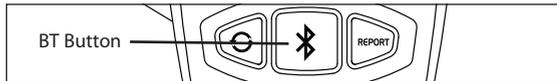
To Pair with a Cell Phone

Press and hold the BT Button for six seconds to enter **Ready For Pairing** mode. A tone will sound to confirm entry to pairing mode.

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. Select 29 LX MAX from the list of Bluetooth devices. Enter the PIN (Personal Identification Number) 0000 if required. Most smart-phones no longer require a PIN entry.

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 the cell phone manufacturer's instruction, to enable it's **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 MAX speaker.

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

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

To Initiate Calls

1 To initiate the phone's voice assistant, if supported, press and release the BT Button twice.

2 Dial a number according to the cell phone manufacturer's instructions. The key press and other tones will be heard through the 29 LX MAX speaker.

3 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.

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

5 Press and hold the BT Button for two seconds to redial a number. A tone will sound; and after a few seconds, you will hear the ring tone for the number you dialed.

Note
Dual Point Bluetooth:
For team drivers, two cell phones can be paired, however; only one phone can be used at a time.

Note
If no further pairing steps are taken, the unit will time-out and return to Standby after 90 seconds. During the pairing process, press and release the BT Button or ESC to cancel the pairing process.

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

Note
*When cell phone calls are in progress using the **Bluetooth** features, the CB functions of the unit are disabled unless the phone call is put on hold (see page 26).*

Note
When dialing a phone number on your phone's keypad, it is recommended that you dial when the vehicle is not in motion.

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.

Downloading the iRadar App

For optimal performance and access to all this radio's advanced features, you should download the iRadar app. To download the app you must enter the iTunes Store or Google Play and search for "**Cobra iRadar**". Follow the onscreen instructions to download and install the Cobra iRadar app.

Make sure to check out the Tutorial for a full explanation of app features. The Tutorial can be accessed from the Menu.

Information on specific settings and explanations of radar bands can be found by pressing the green info icons in the settings menus. The iRadar app can also be used to change and easily adjust the alert settings.

Pairing/Connecting With Your Radio to Use with the Cobra iRadar App

GPS and iRadar-based features require connection to a Bluetooth® Smart ready device and the Cobra iRadar app. For a full list of Bluetooth® devices visit www.bluetooth.com

Please note, this is a newer **Bluetooth**® technology and pairing is not always done in the same manner and menus as conventional Bluetooth®. This radio will NOT APPEAR in the Bluetooth® Settings menu of your iPhone®.

For iPhone® 5s and later:

a. Power on the CB radio.

b. Make sure your iPhone Bluetooth® is turned On.

c. Start the Cobra iRadar application. Press the Menu icon (three horizontal bars) in the upper left corner of the app and select Devices. Select **29 LX MAX - APP** from the devices list. A successful connection shows under the paired devices list as **29 LX MAX - APP CONNECTED**.

d. From the main menu, **29 LX MAX - CONNECTED** appears.

Pairing/Connecting With Your Radio *continued*

For Android™ :

a. Power on the CB radio.

b. Make sure your Android™ Bluetooth® is turned On. Press and hold the Bluetooth button on the microphone to put the radio into Bluetooth pairing mode.

c. Select Bluetooth from **SETTINGS** on the Android device. The **Available Devices** list should contain the following:

DEVICES:

   29 LX MAX (phone functionality)

   29 LX MAX (iRadar app functionality)

   Select **29 LX MAX** to pair and connect to the 29 LX MAX phone call feature.

d. Select **29 LX MAX** for pairing to the iRadar app. The phone might show "Paired but not connected" in this menu. That's OK as the connection will be completed after opening the iRadar App.

e. Enter the iRadar App to complete the connection.

f. From the main menu, **29 LX MAX - CONNECTED** appears.

AURA® Location-based Alerts (LBAs) and iRadar Community

Your radio is capable of providing you with LBAs and iRadar Community threat sharing data when connected to phone running iRadar. The radio uses the GPS in your smartphone to connect to and obtain the latest LBA's and alert you to them. Vehicle speed uses your phone's GPS as well.

AURA and iRadar *continued*

When other iRadar users, detect a radar or laser signal the alert information is anonymously sent to Cobra's cloud servers. Within seconds, that information is processed and displayed on your map as part of a Threat Area.

iRadar users can also report live police, red light cameras, caution zones, etc. These are send to Cobra's cloud servers and displayed on your map and on the radio as user reported Location Based Alerts (LBA).

The distance will count down as you approach the Location-based Alerts (LBA) Area. The alert types are:

📷	Photo-enforced Areas	✴	Known Speed Trap Areas
	Red-light Cameras		
	Speed Cameras	⚠	Caution Areas (High Accident Areas)

As you approach a threat area the iRadar app and the 29 LX MAX will display the type of threat (laser, radar, radar band, etc), the threat level, and when the threat was reported.

Using the Report Button

You can report to the iRadar Community locations where you see active police enforcement or a caution area by pressing the **REPORT** button on the microphone.

1 To report **Live Police**, press and release the **REPORT** button.

2 To report a **Caution Area**, press and hold the **REPORT** button for 2 seconds.

A double beep confirmation tone will be heard.

When receiving an alert you can mark the alert **TRUE** or **FALSE** by pressing and releasing the **REPORT** button. To mark the alert **TRUE**, press and release the **REPORT** button. To mark an alert **FALSE**, press and hold the **REPORT** button for 2 seconds.

A double-beep confirmation tone will be heard.

To Place a call on Hold

During a call the display will show:

```
PRESS ENTER
TO HOLD CALL
AND GO TO CB
```
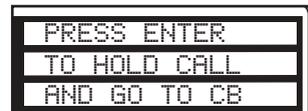
Press **Menu/Enter** knob. This puts the call on hold allowing CB communication.

To Return to Phone Call

While a call is on hold the display will show:

```
PRESS ENTER TO
RETURN TO CALL
```
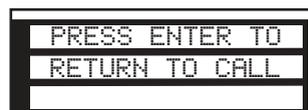
Press **Menu/Enter** knob to resume the call.

To Turn Bluetooth ON/Off on the Radio:

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

```
BLUETOOTH ON
▶SET BT PHONE
 SET BT MEDIA
```
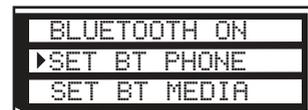
Press **Menu/Enter** again to select Bluetooth Phone ON or OFF:

```
PHONE ON
▶ON
 OFF
```
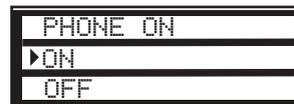
Press **Menu/Enter** again to select Bluetooth Media ON or OFF:

```
MEDIA ON
▶ON
 OFF
```
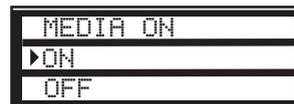
A2DP Audio Streaming

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

Rewind-Say-Again®

Your 29 LX MAX allows you to play back the last transmission received over the airwaves and record a 10 second memo to be played back at any time.

PUSH & HOLD
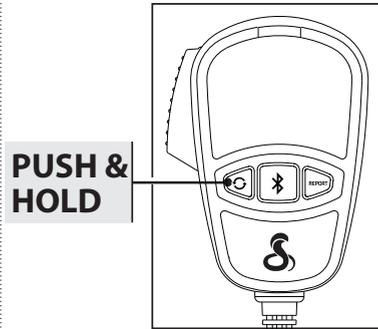
To Playback the Last Transmission
Press and release the **Rewind-Say-Again** button on the mic. The last transmission that the radio received will be heard over the speaker.

TX
RX
40
RWD-SAY-AGAIN
10 SECONDS

To Record a 10 Second Memo
Press and hold the **Rewind-Say-Again** button on the mic for the duration of the 10 second recording.

TX
RX
40
RECORDING MEMO
10 SECONDS
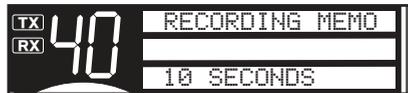
Speak into the microphone to record the Memo.

To play back the recorded memo, double press and release the **Rewind-Say-Again** button. The Memo will be heard over the speaker.

Note
The previous Memo recording will be erased when a new one is recorded.

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 MAX 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 30):
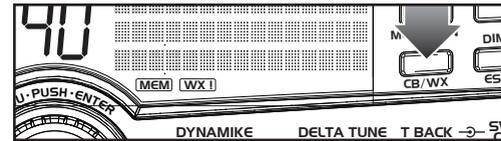
Weather Auto Scan

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 30).

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.

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

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

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

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

Note
If an alert is detected the unit will activate WX mode on the channel with the alert.

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

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

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

Software Version/Factory Settings
Displays current software version and returns unit to original factory settings. To view the software version, press the **Menu/Enter** knob and select **Setting** then **Software Version**.
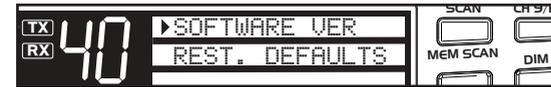
To restore default settings, Press the **Menu/Enter** knob and select **Settings** then **Go To Rest. Defaults**.

Note
Default display color is blue.

Press the **Menu/Enter** knob to restore default settings. Choose **NO** to maintain present settings with no change.

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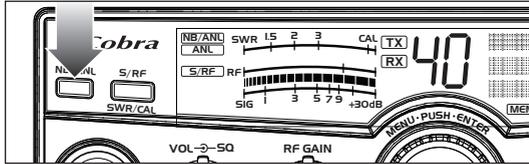
When *switched* to ANL the Automatic Noise Limiter is activated. This helps reduce noise created by the vehicle's electronics.

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

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

RF Gain Control

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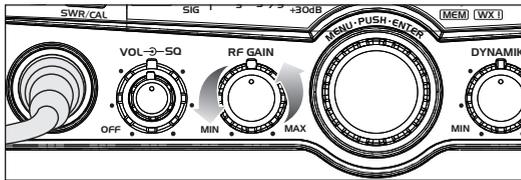
Rotate the RF Gain knob *counterclockwise* to reduce gain in strong signal areas. In weak signal areas turn *clockwise* to increase gain.

Program Memory Channels

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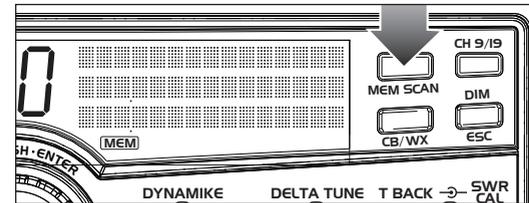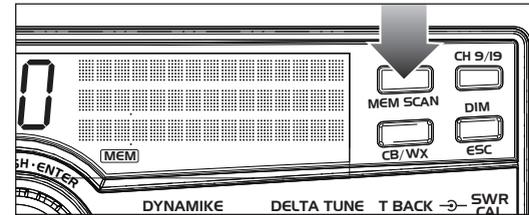
1 Pressing the **Scan/Memory Scan** button toggles from **Off** to **Scan All Channels** to **Memory Channel Only Scan** and back to **Off**.
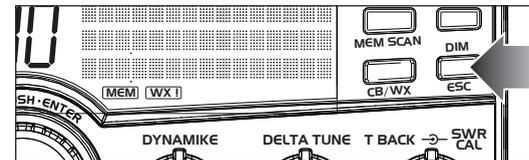
2 Press the **Dim/Escape** button to end Scan and return to CB mode.

Scan CB Channels

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

Scan Memory Channels

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

Dimmer Control
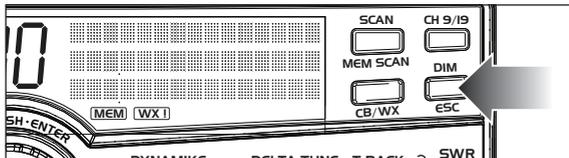
❶ Press the **Dim/Esc** button to toggle between day and night settings.
See setting instructions on page 21.

Setting Squelch

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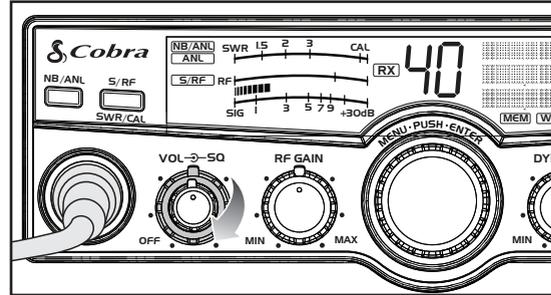
❶ Full *clockwise* rotation closes the gate allowing only very strong signals to enter.
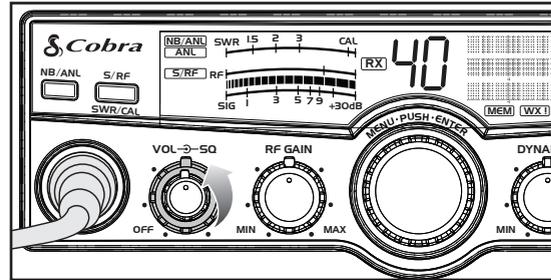
❷ Full *counterclockwise* rotation opens the "gate" allowing all signals in.

Gate closed

STRONG SIGNALS

MEDIUM SIGNALS

WEAK SIGNALS

NOISE

GATE CLOSED

Gate open

STRONG SIGNALS

MEDIUM SIGNALS

WEAK SIGNALS

NOISE

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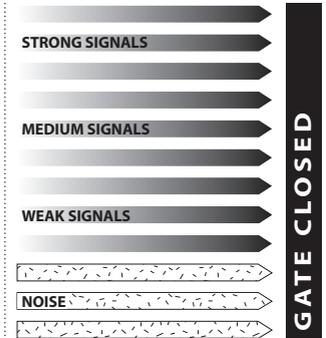
Setting Squelch *continued*
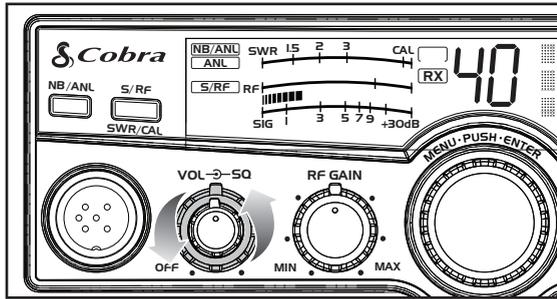
❸ To achieve the Desired Squelch Setting (DSS), turn the Squelch control *counterclockwise* until you hear noise. Now turn the control *clockwise* just until the noise stops. This is the DSS setting.

S/RF Meter

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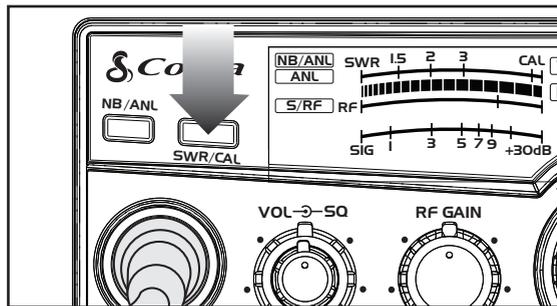
❶ The **S/RF-SWR-CAL** button must be in the S/RF mode.

External Speaker

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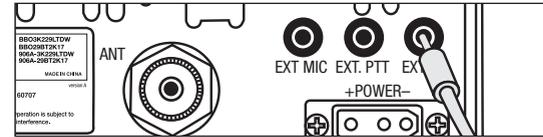
Connect an external speaker to the external speaker jack on the rear panel.

External Push-to-Talk Jack

The external push-to-talk jack is used for remote transmit function with optional PTT (see accessory page 47) and when the external microphone is connected.

Connect an external push-to-talk device 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.
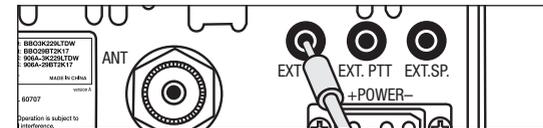
Connect the external microphone (included) to the external microphone jack on the rear panel.

Note

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

Note

Cobra external speakers are rated at 10 watts.

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

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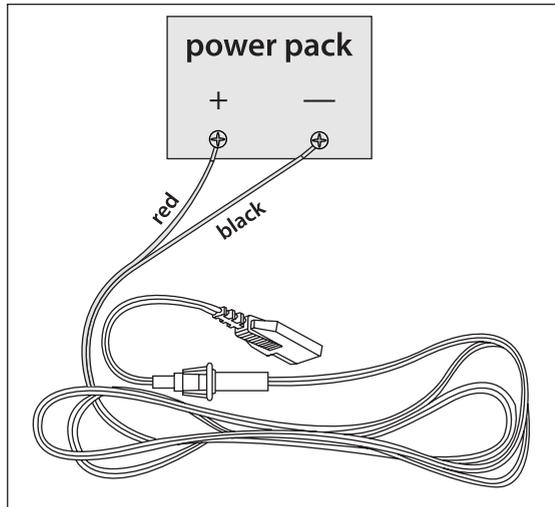
1 Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack.
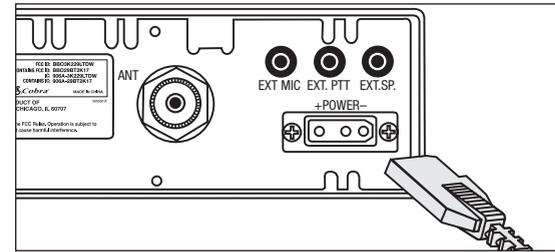
2 Plug the power cable into the back of the unit marked "Power". Be sure to observe the polarity markings.

3 Connect the 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.
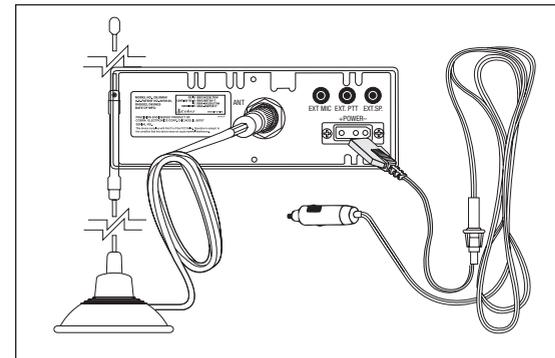
- Warn of traffic problems
- Provide weather and road data
- Provide help in event of an emergency
- Provide direct contact with home or office
- Assist police by reporting erratic drivers
- Get "local information" to find destination
- Communicate with family and friends
- Suggest spots to eat and sleep
- Keep you alert while traveling

A Few Rules You Should Know

A. 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.

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 MAX 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. 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

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

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

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.
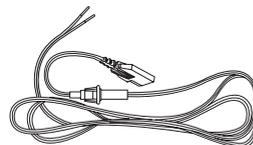
Replacement DC Power Cord
For in vehicle use
426-002-N-001
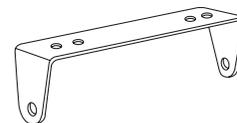
Replacement Mounting Bracket
For in vehicle use
251-353-9-001
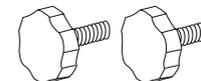
Replacement Thumb Screws
For in vehicle use
634-081-9-001
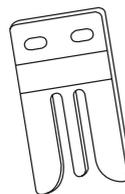
Replacement Microphone Bracket
For in vehicle use
741-080-9-001

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

FCC 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 UNDESIRED 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- (ONLY Required for 15.109-JBP devices)

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- (Required for license-exempt devices)

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.

IC RSS-GEN, Sec 8.3 Warning Statement- (Required for Transmitters with detachable antennas)

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.

IC RSS-102, Sec 2.6 Warning Statement Requirements

The applicant is responsible for providing proper instructions to the user of the radio device, and any usage restrictions, including limits of exposure durations. The user manual shall provide installation and operation instructions, as well as any special usage conditions, to ensure compliance with SAR and/or RF field strength limits. For instance, compliance distance shall be clearly stated in the user manual.
The user manual of devices intended for controlled use shall also include information relating to the operating characteristics of the device; the operating instructions to ensure compliance with SAR and/or RF field strength limits; information on the installation and operation of accessories to ensure compliance with SAR and/or RF field strength limits; and contact information where the user can obtain Canadian information on RF exposure and compliance. Other related information may also be included.

Cobra® 29 LX MAX

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

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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

Cobra®, Dynamike®, iRadar®, Nothing Comes Close to a Cobra® and the snake design are registered trademarks of Cobra Electronics Corporation, USA.

Cobra Electronics Corporation™ is a trademark of Cobra Electronics Corporation, USA.

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

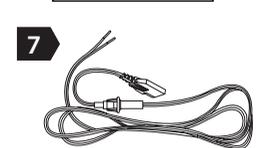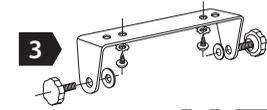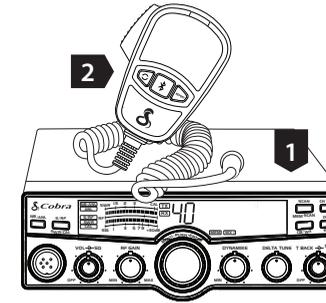# Operating Instructions for your Cobra 29 LX MAX CB Radio with Bluetooth® Wireless Technology

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

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Printed in China

Part No. 480-1077-P Version A

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 MAX
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)

A1

Controls and Indicators

Our Thanks to You

## Optional Accessories

Front Side

1. 6-Pin Microphone Connector
2. Power On/Off, Volume
3. Squelch
4. RF Gain
5. Menu/Enter/Channel Selector
6. Dynamike
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. S/RF SWR CAL Button
18. NB/ANL Button
19. Microphone

On Microphone

20. Rewind-Say-Again™ Button
21. Bluetooth® Button
22. Report Button

Back Side

23. External Microphone Jack
24. External Push-To-Talk Jack
25. External Speaker Jack
26. Antenna Connector
27. Power Jack
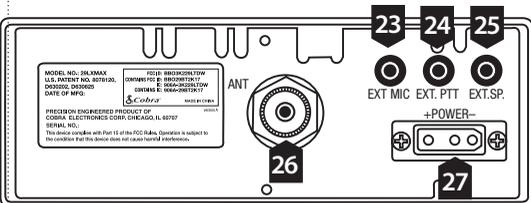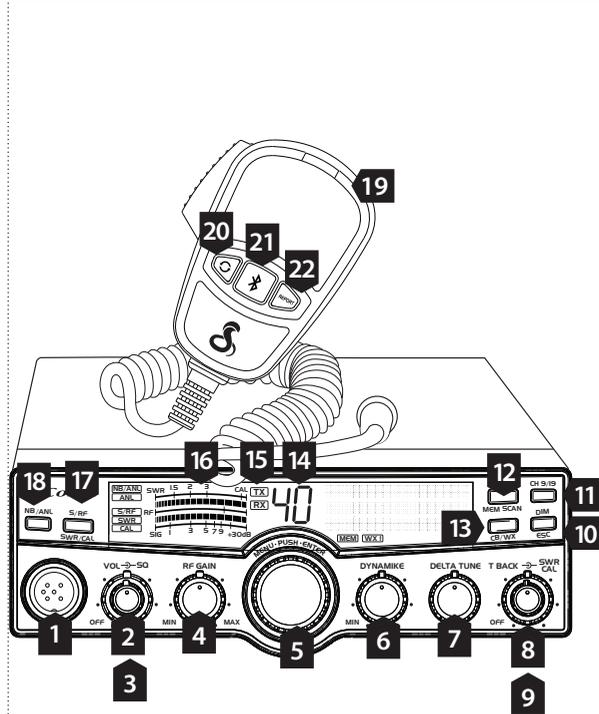
Thank you for purchasing the Cobra 29 LX MAX CB Radio with **Bluetooth**® Wireless Technology. Properly used, this Cobra product will give you many years of reliable service.

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.

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

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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