Operating Instructions for your Cobra 29 LX EU CB Radio

Our Thanks to You and Customer Service

Thank you for purchasing the Cobra 29 LX EU CB Radio Transceiver. Properly used, this Cobra product will give you many years of reliable service.

NOTICE!
Before using this transceiver, please check that the radio has been programmed on the frequency band specifications and operating modes allowed by the regulations valid in the country where the product is used. If not, please proceed to modify the frequency band programming, as described in this owner’s manual page 17. This transceiver is programmed at the factory on the EU frequency band (40 CH AM 1W/40 CH FM 4W).

Customer Assistance
Should you encounter any problems with this product, or not understand its many features, please refer to this owner’s manual. If you require further assistance after reading this manual, please contact your local dealer.

This equipment is intended for use in:

For Warranty, Product Service and Accessory Information
Please contact your local dealer or distributor. See the enclosed leaflet, which provides contact information for the Cobra international distributors.

Nothing Comes Close to a Cobra®
### Controls and Indicators

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<td>23</td>
<td>Power Jack</td>
</tr>
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</table>

### 29 LX EU Fuses

**Replacing the In-Line Fuse**

**Note**

The radio is protected with a 2 fuse system in the event that the user decides not to use the cigarette lighter plug.

**Caution**

For continued protection against fire hazard, replace with same type 2A, 250V fuses.

**Replacing the Fuse in the CLP**

**Note**

There is a retaining spring in the CLP used for tension connectivity.
How to Use Your Cobra 29 LX EU

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Features of This Product
- AM/FM 1W/4W Multi-Country Programmable Transceiver
- Selectable 4-Colour LCD Display
- Scan
- Memory Channels/Scan
- Channel Frequency Read-Out
- Radio Check Diagnostic
- Clock/Timer/Alarm
- Heavy-Duty Dynamic Microphone
- 1/4W AM/4W FM RF Power Output
- SoundTracker® Noise Reduction
- SWR Calibration Meter
- Instant Channel 19 and 9
- Front Panel 4-Pin Microphone Connector
- Switchable Automatic Noise Limiter & Noise Blanker
- Adjustable Dynamike Boost
- Tactile Controls
- Programmable Dimmer Control
- RF Gain
- S-Meter Jack
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

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

2. Drill the holes and secure the bracket.

3. Connect the antenna cable plug to the receptacle marked “ANT” on the back of the unit.

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.
Radio is 12V DC and can be connected via vehicle’s cigarette lighter plug.

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

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

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

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

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.

Attach the 4-pin microphone cable to receptacle on front of unit and install unit in bracket securely.

Plugging power cable into back of unit marked “Power”. Be sure to observe polarity markings.

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.

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

Since the maximum allowable power output of the transmitter is limited, 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.

CB Antenna

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 earthing system and prevention of electrolysis between fittings in the hull and water.

Ignition Noise Interference

Use of a mobile receiver at low signal levels is normally limited by the presence of electrical noise. The primary source of noise in automobiles is from the alternator and ignition system. Typically, when signal level is adequate, the back-earth 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 EU 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

Note
Before using this transceiver, please check that the radio has been programmed on the frequency band specifications and operating modes allowed by the regulations valid in the country where the product is used. If not, please proceed to modify the frequency band programming, as described on page 17. This transceiver is programmed at the factory on the EU frequency band (40 CH AM 1W/40 CH FM 4W).

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

2. Press the AM/FM button to change bands.

Setting Channel Selector

3. Select one of the channels and adjust volume. The selected channel will be indicated by the readout directly above the channel selector knob.
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.

3. Push and hold mic button.

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 indoors). 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 recalculation steps.

To Receive

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

Selecting A Channel

1. Rotate channel selector clockwise or anticlockwise to select desired channel.

S/RF-Meter

Swings proportionately to strength of incoming signal when receiving.

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

**Caution!**
Be sure the antenna is properly connected to the radio before transmitting. Prolonged transmitting without an antenna, or a poorly matched antenna, could cause damage to the transmitter.

**Note**
Be sure the radio is programmed to the band that is allowed in the country of use.

1. **Select desired channel.**

2. **Push and hold mic button to transmit.**

   Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. **Release to receive.**

Setting Dynamike®

This controls the microphone sensitivity (outgoing audio level).

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

Turn SoundTracker® On and Off

To activate SoundTracker® press **Menu/Enter** knob and select **ST ON/OFF**.

**ST** icon will appear in display.

**Note**
SoundTracker® gives you clearer, cleaner reception to improve CB communications while on the air.
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.

**Menu Mode**

**Note**

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

Setting the Country of Use

To set the country of use channel map, press **Menu/Enter** knob to select country. Rotate **Menu/Enter** knob to scroll and select country of choice then press and release **Menu/Enter** to select.

**Setting the Country of Use**

**Level 1:**

- **SET COUNTRY**
- **ST ON/OFF**
- **SET CLOCK**

**Level 2:**

- **EU CEPT**
- **EU AM 1W**
- **ITALY 1**

**Level 3:**

- **POLAND**
- **GERMANY**

**Level 4:**

- **UK**
- **FRANCE**
- **SPAIN**

Setting the Clock

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

**Setting the Clock**

**Note**

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

24:00 will appear in the display and the hours will flash. Rotate **Menu/Enter** knob **clockwise** to select desired hour and press to set.

**Note**

The clock should be connected to constant 12V to run continuously.
Setting the Count Down Timer
To set the count down timer, press Menu/Enter knob and select Set Count Down.

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.

Setting the Alarm
Your 29 LX EU can be utilised as an alarm clock. To set the alarm, press Menu/Enter knob and select Set Alarm.

Rotate Menu/Enter knob clockwise to select Set Alarm Time. Follow instructions above for setting the alarm time and AM or PM on 12:00 hour clock.

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

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.

Note
Default snooze time length is 10 minutes.

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

Setting the Clock Continued
The minutes will then flash. Rotate Menu/Enter knob again to select desired minutes and press to set.

For 12:00 hour clock, 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.

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

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

29LXEU_MANL_ENG_vD.indd   18-19
1/11/12   10:09 AM
Radio Check Mode

Radio Check Mode
Allows testing of important radio functions.

**Test 1- Battery Level:** Confirms that battery voltage level is between 10.8 V and 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.

**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.

**Test 3- Antenna Mismatch Warning:** Press Push-to-Talk button to check antenna/radio for proper matching.

*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 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.

*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.
Operation

Setting Display Colour Mode

1. Setting Display Colour Mode

Press Menu/Enter knob and scroll down to select Display Colour.

2. Press and release Menu/Enter to set the colour.

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

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

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

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 anticlockwise 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.

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.
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, anticlockwise to decrease contrast. Press Menu/Enter knob to set contrast.

Press Menu/Enter knob again to exit routine.

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

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.

Note
Default display colour is green.
Operation

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.

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.

RF Gain Control

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

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

Program Memory Channels

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.

Pressing the Scan/Memory Scan button toggles from Off to Scan All Channels to Memory Channel Only Scan and back to Off.

Press Dim/Escape button to end Scan and return to CB mode.

Note
The radio should be squelched before scan features are activated.

Note
Keying the microphone will stop the scan feature.

Note
If you attempt to program more than 10 channels, 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.
Scan CB Channels
Scan CB Channels
To scan all 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
1 Press Dim/Esc button to toggle between day and night settings.
See setting instructions on page 23.

Setting Squelch
Squelch is the “control gate” for incoming signals.

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

2 Full anticlockwise rotation opens the “gate” allowing all signals in.
External Speaker

The external speaker jack is used for remote receiver monitoring.

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
External S-Meter indicates receive/transmit signal strength only.

Setting Squelch

Continued

Gate set to Desired Squelch Setting (DSS)

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

1. Connect an external speaker to the external speaker jack on the rear panel.
2. Connect external S-Meter to jack for use of external S-Meter (not supplied).
**Base Station Operation (From 230V 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.

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.

**Warning!**
Do not attempt to operate this transceiver by connecting it directly to 230V AC.
## Frequency Ranges

<table>
<thead>
<tr>
<th>Band</th>
<th>Channels</th>
<th>Power</th>
<th>Country</th>
<th>(MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>40 CH AM</td>
<td>1W</td>
<td>Europe/France</td>
<td>CEPT Frequencies</td>
</tr>
<tr>
<td>EU</td>
<td>40 CH FM</td>
<td>4W</td>
<td>Europe/France</td>
<td>CEPT Frequencies</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>26.965-27.405</td>
</tr>
<tr>
<td>CE</td>
<td>40 CH FM only</td>
<td>4W</td>
<td>CEPT Frequencies</td>
<td></td>
</tr>
<tr>
<td>UK</td>
<td>40 CH FM</td>
<td>4W</td>
<td>England (UK)</td>
<td>CEPT Frequencies</td>
</tr>
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<td>4W</td>
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<td>40 CH FM</td>
<td>4W</td>
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<tr>
<td>I2</td>
<td>36 CH AM</td>
<td>4W</td>
<td>Italy/Spain</td>
<td>Italian Frequencies</td>
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<tr>
<td>I2</td>
<td>36 CH FM</td>
<td>4W</td>
<td>Italy/Spain</td>
<td>Italian Frequencies</td>
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<tr>
<td>DE</td>
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<td>1W</td>
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<td></td>
<td></td>
<td>2nd 40 CH</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>German Frequencies</td>
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</tbody>
</table>

**NOTE:** If the country of usage is not listed above, please consult with your local communications authority for frequency usage.
**Frequency Ranges continued**

<table>
<thead>
<tr>
<th>Band ID EU: France</th>
<th>Band ID 11: Italy 1</th>
<th>Band ID 12: Italy 2</th>
<th>Band ID DE: Germany</th>
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</thead>
<tbody>
<tr>
<td>AM 1.0W</td>
<td>AM 4.0W</td>
<td>AM 4.0W</td>
<td>40 Ch</td>
</tr>
<tr>
<td>FM 4.0W</td>
<td>FM 4.0W</td>
<td>FM 4.0W</td>
<td>AM 1.0W</td>
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<tr>
<td>Ch. No.</td>
<td>Freq.(MHz)</td>
<td>Ch. No.</td>
<td>Freq.(MHz)</td>
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<tr>
<td>2</td>
<td>26.975</td>
<td>18</td>
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<td>26.985</td>
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<td>27.005</td>
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<td>26</td>
<td>26.805</td>
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<td>26.815</td>
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<td>13</td>
<td>27.095</td>
<td>29</td>
<td>26.835</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

- **GENERAL**
  - **Channels**: FM/AM
  - **Frequency Range**: 26.565 to 27.99125 MHz
  - **Frequency Tolerance**: ±0.005 %
  - **Frequency Control**: PLL (Phase Lock Loop) Synthesizer
  - **Operating Temperature Range**: -30°C to +65°C
  - **Microphone**: Plug-in dynamic
  - **Input Voltage**: 13.2 VDC nom. (negative ground)
  - **Current Drain**: Transmit: AM/FM full mod., 1.4A (maximum)
  - **Receive: Squelched, 0.9 A, Full audio output, 1.2A (nominal) 5 minute transmit 5 minute stand by
  - **Maximum Duty Cycle**: 8.625”D x 7.28125”W x 2.8125”H
  - **Weight**: 4 lbs.
  - **Antenna Connector**: UHF; SO-239
  - **Meter**: LCDs; indicates relative power output and received signal strength

- **RECEIVER**
  - **Output Impedance**: 50 ohms, unbalanced
  - **Frequency Response**: 300 to 3000 Hz

- **TRANSMITTER**
  - **Power Output**: 4 watts FM, 4/1 watt AM
  - **Modulation**: AM (Amplitude Modulation)
  - **FM (Frequency Modulation)**
  - **Receive: Squelched, 0.9 A; Full audio output, 1.2A**
  - **Current Drain**: Transmit: AM/FM full mod., 1.4A (maximum)
  - **Input Voltage**: 13.2 VDC nom. (negative ground)
  - **Frequency Tolerance**: ±0.005 %
  - **Channels**: FM/AM

**Trademark Acknowledgement**

Cobra®, 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.
Optional Accessories

You can find quality Cobra products and accessories at your local Cobra dealer.

<table>
<thead>
<tr>
<th>Replacement DC Power Cord</th>
<th>Replacement Mounting Bracket</th>
<th>Replacement Thumb Screws</th>
</tr>
</thead>
<tbody>
<tr>
<td>For in vehicle use</td>
<td></td>
<td></td>
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</tbody>
</table>

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<thead>
<tr>
<th>Replacement Microphone Bracket</th>
<th>21” Base Loaded Magnet Mount Antenna</th>
<th>38” Base Loaded Magnet Mount Antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>HG A1000</td>
<td>HG A1500</td>
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<tr>
<th>Dynamic External Speaker</th>
<th>Noise Cancelling External Speaker</th>
<th>Noise Cancelling With Talk Back External Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>HG S100</td>
<td>HG S300</td>
<td>HG S500</td>
</tr>
</tbody>
</table>

Declaration of Conformity

We, Cobra Electronics Europe Limited of
Dungar House
Northumberland Avenue
Dun Laoghaire
County Dublin, Ireland
Declare under our sole responsibility that the product:
29 LX EU
CB radio
to which this declaration relates, is in conformity with the following standards and/or other normative documents when properly installed and maintained and used for their intended purpose:

EN62311 (2008)
EN 301 489-1 V1.8.1 (2008-04)
EN 301 489-13 V1.2.1 (2002-08)
EN 300 433-2 V1.3.1 (2011-07)

We hereby declare that the above named product is in conformity to all the essential requirements of the Directive 1999/5/EC.
The conformity assessment procedure referred to in Article 10 and detailed in Annex III or IV of Directive 1999/5/EC has been followed with the involvement of the following Notified Body:
BABT, Forsyth House, Churchfield Road, Walton-on-Thames, Surrey, KT12 2TO, UK
Identification mark 0168 (Notified Body Number)
The equipment will also carry the Class 2 equipment identifier: Ω

The technical documentation relevant to the above equipment will be held at:
Cobra Electronics Europe Limited of
Dungar House
Northumberland Avenue
Dun Laoghaire
County Dublin, Ireland

JEAN-LOUIS POOT, Managing Director
December 2011