

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

> [Lafayette](#) /

> [Lafayette EVOLUTION CB AM FM 40-Channel Multistandard Vehicle Transceiver User Manual](#)

Lafayette LAFAYETTE EVOLUTION

Lafayette EVOLUTION CB AM FM 40-Channel Multistandard Vehicle Transceiver User Manual

Model: LAFAYETTE EVOLUTION

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Lafayette EVOLUTION CB AM FM 40-Channel Multistandard Vehicle Transceiver. Please read this manual thoroughly before operating the device to ensure proper use and to prevent damage.

2. SAFETY INFORMATION

- Ensure the power supply voltage (12V/24V) matches the vehicle's electrical system to prevent damage.
- Do not operate the transceiver with a damaged antenna or without an antenna connected.
- Avoid exposing the unit to extreme temperatures, direct sunlight, or moisture.
- Do not attempt to open or modify the transceiver. Refer all servicing to qualified personnel.
- Always prioritize safe driving. Do not operate the CB radio in a way that distracts you from the road.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Lafayette EVOLUTION CB Radio Unit
- Microphone
- Mounting Bracket for Radio and Screws
- Microphone Holder and Screws
- Power Cord
- User Manual (this document)
- 1DIN Mounting Case (if applicable)

4. PRODUCT OVERVIEW

The Lafayette EVOLUTION is a compact and versatile CB radio designed for vehicle use, offering both AM and FM modes across 40 channels. It features a clear display and intuitive controls for ease of use.



Figure 1: Front view of the Lafayette EVOLUTION CB radio with its connected microphone. The display shows channel information and signal strength, and various control knobs and buttons are visible.

Front Panel Controls and Indicators



Figure 2: Close-up view of the Lafayette EVOLUTION's front panel, illustrating the various knobs and buttons for volume, squelch, RF gain, mic gain, AM/FM mode selection, channel scan, and public address (PA) function. Two units are shown, one with blue backlighting and another with red backlighting, highlighting the illuminated controls.

- **VOL/OFF:** Volume control and power switch.
- **SQUELCH:** Adjusts the squelch level to suppress background noise.
- **RF GAIN:** Adjusts receiver sensitivity.
- **MIC GAIN:** Adjusts microphone sensitivity.
- **AM/FM:** Selects modulation mode.
- **ASQ:** Automatic Squelch Control.
- **SCAN:** Initiates channel scanning.
- **PA:** Activates Public Address function.
- **Channel Selector:** Rotary knob for changing channels.
- **Display:** Shows current channel, signal strength, and other indicators.

5. SETUP

5.1 Mounting the Transceiver

1. Choose a suitable location in your vehicle that does not obstruct driving and allows easy access to controls.
2. Use the provided mounting bracket as a template to mark drilling points.
3. Drill pilot holes and secure the mounting bracket with the supplied screws.
4. Slide the CB radio into the bracket and secure it using the side knobs or screws.
5. If using the 1DIN mounting case, install it into a standard 1DIN slot in your vehicle's dashboard.

5.2 Antenna Installation

A properly installed and tuned antenna is crucial for optimal performance. Consult an antenna specialist if you are unsure about installation or tuning.

- Mount the antenna in a location that provides a clear path for radio waves, typically on the roof or trunk lid.
- Route the antenna cable carefully, avoiding sharp bends or pinching.
- Connect the antenna cable to the antenna connector on the rear of the CB radio.

5.3 Power Connection

The Lafayette EVOLUTION operates on 12V or 24V DC power.

- Connect the red wire of the power cord to the positive (+) terminal of your vehicle's battery or a switched 12V/24V power source.
- Connect the black wire of the power cord to the negative (-) terminal of your vehicle's battery or a good chassis ground point.
- Ensure all connections are secure and properly insulated.

5.4 Microphone Connection

Connect the 4-pin microphone cable to the microphone jack on the front panel of the transceiver.

6. OPERATING INSTRUCTIONS

6.1 Basic Operation

1. **Power On:** Turn the VOL/OFF knob clockwise until it clicks and the display illuminates. Adjust the volume to a comfortable level.
2. **Squelch Adjustment:** Turn the SQUELCH knob fully counter-clockwise. You will hear static. Slowly turn it clockwise until the static just disappears. This is the optimal squelch setting.
3. **Channel Selection:** Use the Channel Selector knob to choose your desired operating channel (1-40).
4. **Mode Selection (AM/FM):** Press the AM/FM button to toggle between Amplitude Modulation (AM) and Frequency Modulation (FM) modes.
5. **Transmitting:** Press and hold the PTT (Push-To-Talk) button on the microphone to transmit. Speak clearly into the microphone. Release the PTT button to receive.

6.2 Advanced Features

- **ASQ (Automatic Squelch Control):** Press the ASQ button to activate automatic squelch. This feature automatically adjusts the squelch level for optimal reception.
- **RF GAIN:** Use the RF GAIN knob to reduce the sensitivity of the receiver, which can be useful in areas with strong local signals to prevent overload.
- **MIC GAIN:** Adjust the MIC GAIN knob to control the microphone's sensitivity. Set it to a level that ensures clear transmission without distortion.
- **SCAN:** Press the SCAN button to initiate channel scanning. The radio will cycle through channels until it detects a signal, then pause. Press SCAN again to resume scanning.
- **PA (Public Address):** Connect an external PA speaker to the rear PA jack. Press the PA button to use the CB radio as a public address system. The microphone will then broadcast through the external speaker.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transceiver. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check all cable connections (power, antenna, microphone) to ensure they are secure and free from corrosion.
- **Antenna Tuning:** Regularly check your antenna's SWR (Standing Wave Ratio) to ensure optimal performance and prevent damage to the transceiver's output stage.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a dry, cool place.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Loose power connection, blown fuse, vehicle battery issue	Check power cord connections. Inspect and replace fuse if necessary. Verify vehicle battery voltage.
No reception or poor reception	Squelch too high, antenna issue, incorrect mode (AM/FM)	Adjust squelch. Check antenna connection and SWR. Ensure correct AM/FM mode is selected.

Problem	Possible Cause	Solution
Cannot transmit	Microphone not connected, PTT button faulty, antenna issue	Ensure microphone is securely connected. Test PTT button. Check antenna connection and SWR.
Distorted audio	Volume too high, MIC GAIN too high, poor signal quality	Adjust volume and MIC GAIN. Check antenna and signal conditions.

9. SPECIFICATIONS

- **Product Type:** CB Radio
- **Model:** LAFAYETTE EVOLUTION
- **Channels:** 40 (Multistandard)
- **Frequency Range:** 26.965 - 27.405 MHz
- **Modulation Modes:** AM, FM
- **Transmission Power:** 4 W
- **AM Modulation:** 85%
- **FM Modulation:** 2.0 KHz
- **Sensitivity (20dB SINAD):** FM -120 dBm, AM -118 dBm @ 12dB SINAD
- **Audio Signal Distortion:** Less than 3% @ 1 KHz
- **Audio Speaker Power:** 2 W
- **Microphone Type:** 4-pin
- **Power Supply:** 12 V / 24 V DC
- **Dimensions (L x W x H):** 186 x 190 x 58 mm
- **Weight:** 1100 g
- **Mounting:** 1DIN compatible
- **International Protection Rating:** IPX4
- **Special Features:** Channel Scan, RF Gain, Mic Gain, ASQ, Meter, PA (Public Address)

10. WARRANTY AND SUPPORT

Information regarding specific warranty terms and spare parts availability for the Lafayette EVOLUTION is not provided in the product details. For support or service inquiries, please contact your retailer or the manufacturer directly.