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## Leadfan BMW E90 E91 E92 E93 Car Stereo

# Leadfan Car Radio User Manual for BMW 3 Series E90 E91 E92 E93 (2005-2011)

Model: BMW E90 E91 E92 E93 Car Stereo

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Leadfan Car Radio for BMW 3 Series E90, E91, E92, and E93 models manufactured between 2005 and 2011. This unit features a 9-inch IPS touch screen, Wireless CarPlay, Android Auto, GPS navigation, Bluetooth 5.1, WiFi connectivity, and supports steering wheel controls and a rear camera.

## 2. COMPATIBILITY AND IMPORTANT NOTES

This car radio is designed for specific BMW 3 Series models. Please review the following compatibility information carefully before installation:

- **Compatible Models:** BMW 3 Series (E90, E91, E92, E93) from 2005 to 2011.
- **Audio System Compatibility:** If your car has a Harman Kardon fiber optic Logic 7 sound system, or if your factory car plug does not have 8 speaker cables, this unit is not directly compatible. A separate fiber optic decoder box (not included) would be required.
- **iDrive System:** If your car is equipped with an iDrive system and an LCD display, this car stereo is not compatible.
- **AC Control Panel Relocation:** Due to the smaller size of the original radio in E90-E93 models, the factory A/C control panel must be moved to the original storage box location. The package includes baffles for this retrofitting.
- **Original Buttons:** If you wish to retain the original buttons, an ashtray button relocation kit (not included) may be required.



Image: Leadfan Car Radio installed in a BMW 3 Series dashboard, displaying the Apple CarPlay interface. This image illustrates the integrated appearance of the unit after installation.

### 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Leadfan Car Radio Unit (9-inch IPS Touch Screen)
- CANBUS Decoder
- GPS Antenna
- Back-up Camera
- Reversing Camera Input Cable
- RCA Cable
- 2 USB Cables
- Plug and Play Power Harness
- Radio Kit (includes mounting brackets, baffles for AC control panel relocation, screws, clips, and fuse)
- User Manual

# Package List



Image: Detailed diagram illustrating all components included in the Leadfan Car Radio package, such as the main unit, cables, camera, and mounting hardware.

## 4. SETUP AND INSTALLATION

Professional installation is recommended. Ensure the vehicle's battery is disconnected before beginning installation.

### 4.1 General Installation Steps

1. Remove the original car radio and associated trim panels.
2. Connect the provided plug-and-play wiring harness to the vehicle's factory wiring.
3. Install the CANBUS decoder as per the wiring diagram.
4. Connect the GPS antenna and route it to a suitable location (e.g., dashboard, under the windshield).
5. Connect the USB cables and route them to a convenient location for access.
6. Relocate the A/C control panel using the provided baffles if necessary (for E90-E93 models).
7. Mount the new Leadfan car radio unit into the dashboard opening.
8. Reconnect the vehicle's battery and test the unit.

### 4.2 Backup Camera Connection

The reversing input must be plugged in even if the reversing camera is not used.

1. Connect the back wire from the power cable to the rear camera.
2. Connect the reversing trigger cable.
3. Connect the camera power cable: the red wire to the car reversing light positive, and the black wire to the car reversing light negative.
4. Ensure the white plug is securely connected to the radio; otherwise, Bluetooth and WiFi functionalities may be unavailable.

## How to Connect The Backup Camera and canbus

Tip: The reversing input must be plugged in even when the reversing camera is not used.

Please connect the **back wire** from the power cable to the rear camera



**Two Choice**

— Roof wiring  
— Under seat wiring

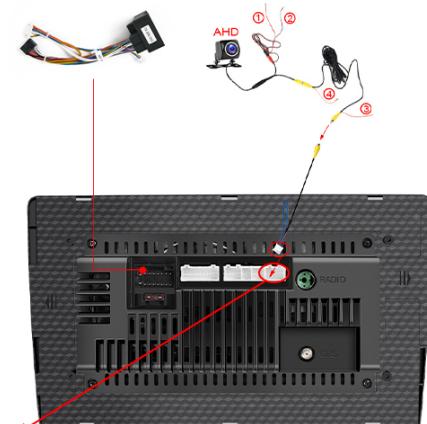
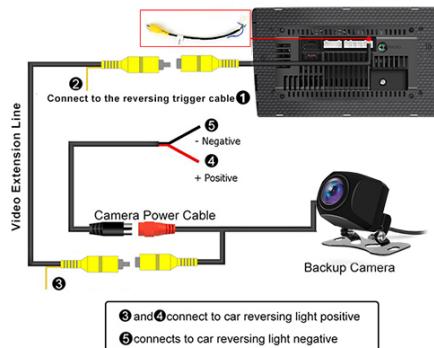


Image: Wiring diagram illustrating the connection process for the backup camera and CANBUS module to the Leadfan car radio.

### 4.3 Steering Wheel Control (SWC) Wiring

After correct wiring, you will need to 'learn' the steering wheel buttons through the unit's settings menu to enable control over the radio functions.



Image: The car radio display showing the interface for learning steering wheel controls, with an inset of a hand interacting with a steering wheel button.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Operation

- Power On/Off:** Press and hold the power button (usually located on the left side of the unit) to turn the device on or off. A short press typically mutes/unmutes the audio.
- Volume Control:** Use the volume buttons or the on-screen slider to adjust the audio level.
- Touch Screen:** Navigate through menus and applications by tapping, swiping, and pinching on the 9-inch IPS touch screen.

### 5.2 Wireless CarPlay & Android Auto

Connect your smartphone wirelessly to access navigation, music, calls, and messages directly on the car radio display.

1. Ensure Bluetooth and Wi-Fi are enabled on your smartphone.

2. On the car radio, select the CarPlay or Android Auto application.
3. Follow the on-screen prompts to pair your phone.



Image: The car radio displaying both Apple CarPlay and Android Auto interfaces, highlighting voice command capabilities for navigation and music.

### 5.3 Mirror Link

Mirror your phone's screen to the car radio display to access apps like YouTube, Instagram, or Snapchat.

1. Select the 'Mirror Link' option on the car radio.
2. Follow the instructions to connect your iOS or Android device.

### 5.4 GPS Navigation & WiFi Connection

The unit supports both offline and online navigation. Connect to a WiFi hotspot for online maps and other internet-based applications.

1. To use online maps, connect the unit to a WiFi network via your phone's hotspot or a dedicated car WiFi device.
2. Download offline maps for navigation without an internet connection.
3. Access various navigation apps and other internet services like Twitter, Facebook, and Gmail.



Image: The car radio displaying GPS navigation with a map view, alongside icons for various internet-connected applications.

### 5.5 Bluetooth 5.1

Enjoy hands-free calling and wireless music streaming.

1. Enable Bluetooth on your phone and the car radio.
2. Search for the car radio in your phone's Bluetooth settings and pair.
3. Once connected, you can sync contacts, make/receive calls, and stream audio.



Image: The car radio displaying a Bluetooth hands-free calling interface, with a smartphone showing an incoming call, demonstrating seamless integration.

## 5.6 FM Radio

Access real-time traffic, news, weather, and music broadcasts.

- Select the 'FM' application on the main screen.
- Use the on-screen controls to scan for stations or manually tune to a frequency.
- Save your favorite stations as presets.

## 5.7 EQ DSP Sound Settings

Customize your audio experience with the built-in 10-band equalizer.

- Access the 'EQ' or 'Sound Settings' menu.
- Adjust frequency bands, select preset sound modes (Rock, Pop, Jazz, Classic, etc.), and fine-tune sound field settings.

## 5.8 Split Screen Function

Run two applications simultaneously on the screen, such as navigation and music playback.

1. Open the first application you wish to use.
2. Long-press the recent apps button or follow the specific gesture for split-screen mode (refer to the on-screen tutorial if available).
3. Select the second application to display alongside the first.

# Split Screen Function

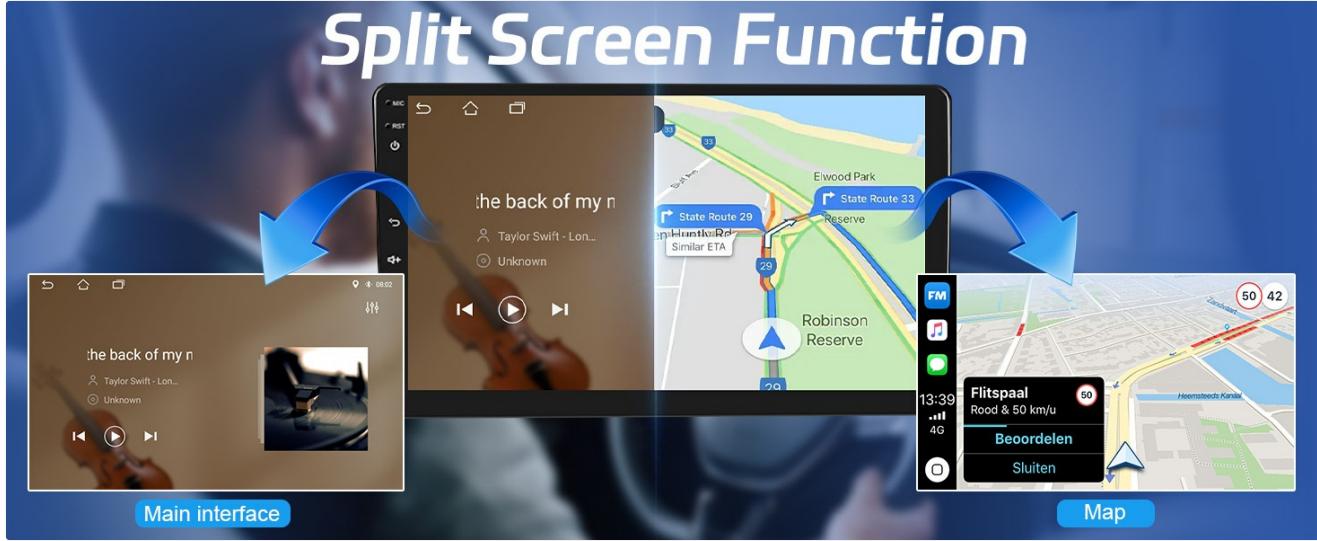


Image: The car radio screen demonstrating the split-screen function, with a music player on one side and a navigation map on the other, enhancing multitasking.

## 5.9 Rear Camera Display

When the vehicle is shifted into reverse, the display will automatically switch to the rear camera view, providing a clear image for safer maneuvering.

## 6. MAINTENANCE

- Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touch screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- General Cleaning:** Keep the unit free from dust and debris. Use a soft brush or compressed air to clean around buttons and vents.
- Software Updates:** Periodically check for available software updates to ensure optimal performance and access to new features. Follow the on-screen instructions for any updates.

## 7. TROUBLESHOOTING

- No Sound After Installation:** If you experience no sound, ensure the orange wire is correctly connected to the red wire in the wiring harness. Additionally, access the factory settings (code: **1234**), go to radio settings, and change your local settings to 'North America' if applicable.
- Backup Camera Not Working:** Verify all camera connections are secure, especially the reversing trigger cable and the white plug to the radio. Ensure the camera is receiving power.
- Bluetooth/WiFi Connectivity Issues:** Check that the white plug is securely connected to the radio. Ensure Bluetooth and WiFi are enabled on both the unit and your mobile device. Restart both devices if issues persist.
- Unit Not Powering On:** Check the power harness connections and the vehicle's fuse box for any blown fuses.
- Steering Wheel Controls Unresponsive:** Ensure the CANBUS decoder is correctly installed and the steering wheel buttons have been 'learned' through the unit's settings.
- Screen Unresponsive:** Try restarting the unit. If the issue persists, contact technical support.

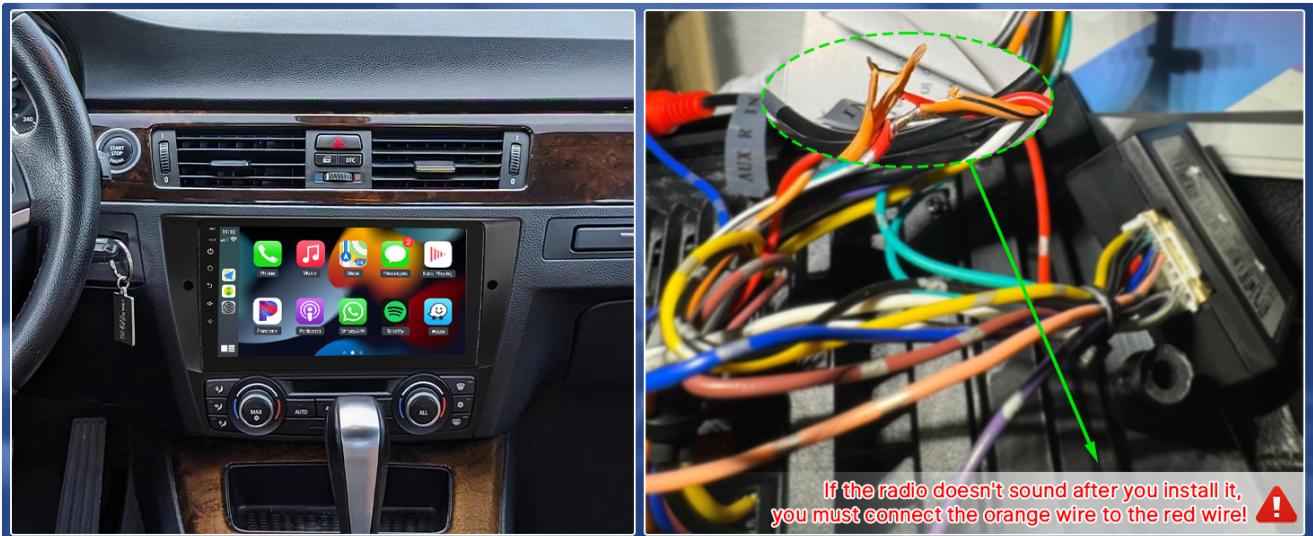


Image: A close-up of wiring, specifically indicating the connection of an orange wire to a red wire, which is crucial for resolving 'no sound' issues after installation.

## 8. SPECIFICATIONS

<b>Screen Size</b>	9 inches (23 cm)
<b>Display Type</b>	IPS Touch Screen
<b>Resolution</b>	1024*600
<b>Processor</b>	4-core CPU
<b>RAM</b>	2GB
<b>ROM</b>	32GB
<b>Operating System</b>	Android
<b>Connectivity</b>	Bluetooth 5.1, Wi-Fi
<b>Compatible Devices</b>	Android, iOS
<b>Special Features</b>	Built-In Bluetooth, Touchscreen, Waterproof (Rear Camera)
<b>Audio Output Mode</b>	Stereo
<b>Surround Sound Channel</b>	5.1
<b>Video Encoding</b>	H.264, H.265/HEVC
<b>Item Weight</b>	3.76 pounds (1.71 kg)
<b>Package Dimensions</b>	11.81 x 11.02 x 3.74 inches

## 9. WARRANTY AND SUPPORT

Leadfan is committed to providing excellent customer service and technical support.

- Technical Support:** Lifetime technical support is available for this product.
- Replacement Policy:** A 12-month replacement policy is offered for eligible issues.
- Return Policy:** Enjoy a 60-day worry-free return period.

- **Response Time:** Customer inquiries typically receive a reply within 24 hours.

For any questions or assistance, please contact Leadfan customer service by clicking "sold by Leedfan" on the product page and then "ask a question."