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> [Android 13 Car Stereo Radio for Suzuki Grand Vitara 2006-2013, Biorunn 9 Inch GPS Wireless Wired Car-Play Android Auto IPS Navi WiFi FM RDS Head Unit 1GB RAM 32GB ROM 4-Core,1GB+32GB](#)

Biorunn 4-Core,1GB+32GB

Biorunn Android 13 Car Stereo Radio User Manual

Model: 4-Core, 1GB+32GB for Suzuki Grand Vitara 2006-2013

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Biorunn Android 13 Car Stereo Radio. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

This unit is specifically designed for Suzuki Grand Vitara models from 2006 to 2013, featuring a 9-inch IPS touch screen, 1GB RAM, and 32GB ROM. It includes built-in Wireless Wired Car-Play and Android Auto capabilities, Bluetooth 5.0, FM RDS radio, and supports various multimedia formats.

2. SAFETY INFORMATION

Always prioritize safety when operating your vehicle. Improper installation or use of this device can lead to accidents or injury. Adhere to all local traffic laws and regulations.

- Do not attempt to install or repair the unit yourself if you are not qualified. Consult a professional installer.
- Avoid operating the device's complex functions while driving. Perform adjustments only when the vehicle is stationary and safe to do so.
- Ensure all wiring is correctly connected to prevent short circuits or damage to the vehicle's electrical system.
- Keep the volume at a level that allows you to hear external traffic sounds.

3. PACKAGE CONTENTS

Verify that all components are present in the package before beginning installation.

- Biorunn Android 13 Car Stereo Head Unit
- USB Cables (2)
- GPS Antenna
- Power Harness
- RCA Cables (Audio/Video Multifunctional Plug)

- User Manual (this document)
- Mounting Brackets and Screws (pre-attached or separate)

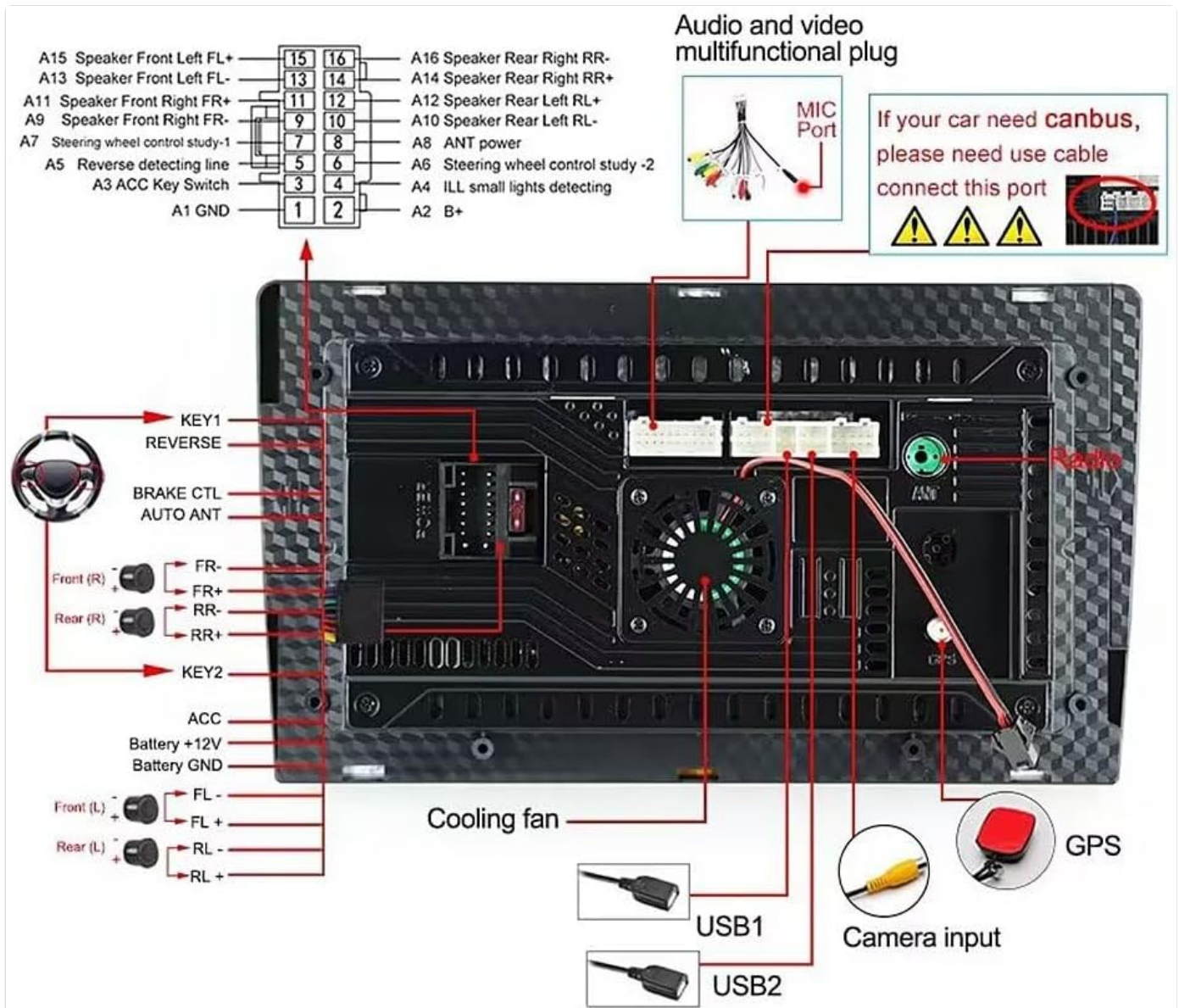


Figure 3.1: Rear view of the head unit with labeled connection ports including USB, GPS, camera input, and audio/video multifunctional plug. Note the cooling fan and power connections.

4. SETUP AND INSTALLATION

Professional installation is highly recommended. Incorrect wiring can damage the unit or your vehicle. Ensure the vehicle's battery is disconnected before starting installation.

4.1 Pre-Installation Check

- Confirm compatibility with your Suzuki Grand Vitara (2006-2013).
- Gather necessary tools: screwdriver set, wire strippers, electrical tape, multimeter.
- If your car requires a CANbus decoder, ensure it is connected to the appropriate port as indicated in the wiring diagram.

4.2 Wiring Diagram

Refer to the detailed wiring diagram below for correct connections. Pay close attention to power, ground, speaker, and accessory connections.

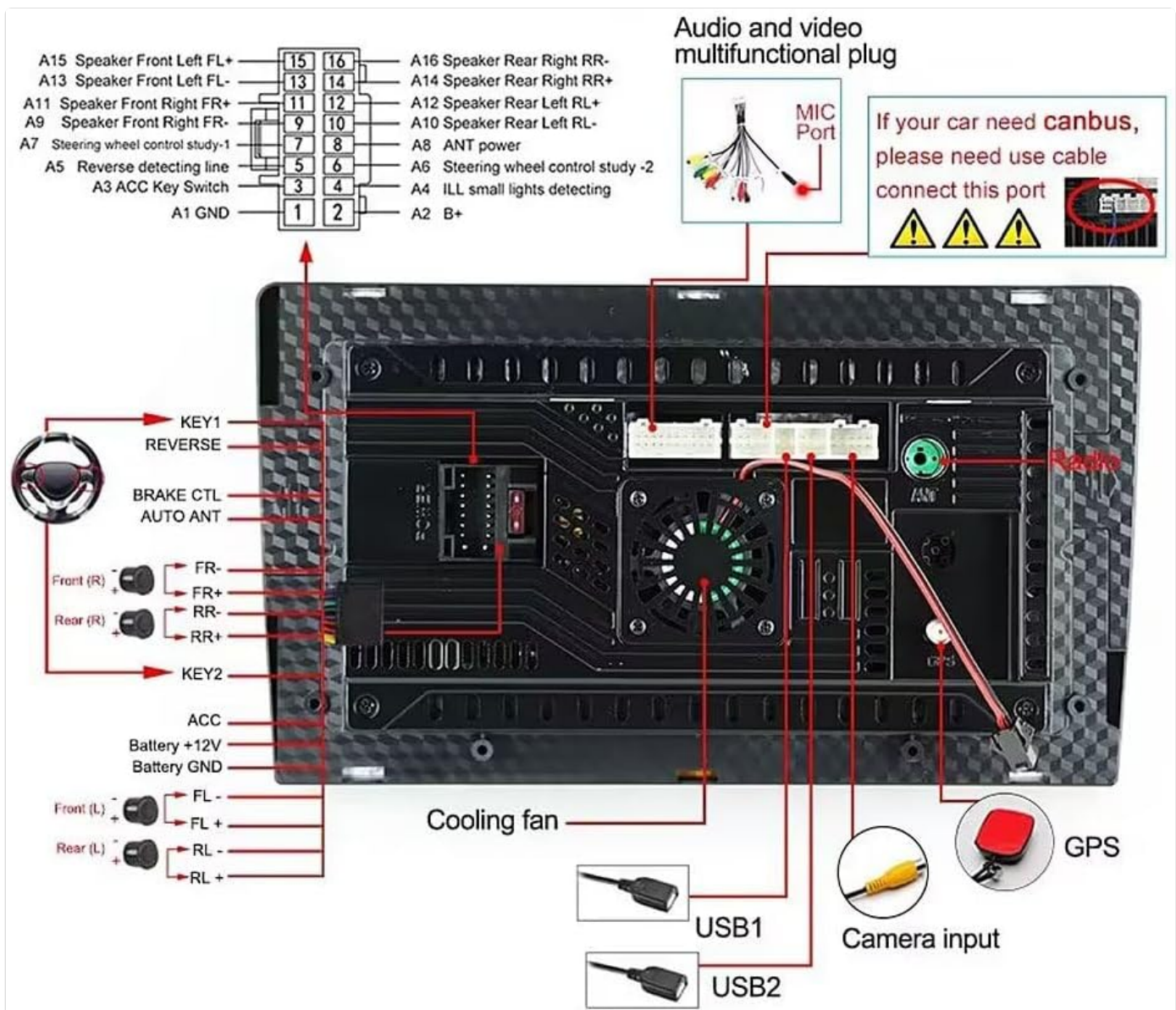


Figure 4.1: Comprehensive wiring diagram illustrating connections for power (ACC, B+, GND), speaker outputs (FR, FL, RR, RL), USB ports, GPS antenna, camera input, and steering wheel controls. Note the specific port for CANbus connection if required.

- **Power Connections:** Connect B+ (constant 12V), ACC (switched 12V), and GND (ground) securely.
- **Speaker Outputs:** Connect to your vehicle's speaker wires, ensuring correct polarity.
- **USB Ports:** Use the provided USB cables for external devices.
- **GPS Antenna:** Mount the GPS antenna in a location with a clear view of the sky for optimal signal reception.
- **Camera Input:** Connect your rearview camera to the dedicated camera input.
- **Steering Wheel Control:** Connect SWC wires to your vehicle's steering wheel control wires. The unit supports original steering wheel remote control.

4.3 Physical Installation

1. Carefully remove the original car stereo and trim panel from your Suzuki Grand Vitara.
2. Connect all necessary wiring harnesses from the vehicle to the new head unit, following the wiring diagram.
3. Attach the mounting brackets to the new head unit, aligning them with the vehicle's dashboard opening.
4. Slide the head unit into the dashboard opening, ensuring a secure fit.
5. Reinstall the trim panel and secure any removed screws.
6. Reconnect the vehicle's battery.



Figure 4.2: Visual representation of the car's center console before and after the installation of the Biorunn Android 13 Car Stereo, demonstrating the integrated fit.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Power On/Off:** Press and hold the power button (usually on the left side of the unit) to turn the unit on or off.
- **Volume Control:** Use the volume buttons or the on-screen slider to adjust audio levels.
- **Home Screen:** Tap the home icon to return to the main application interface.
- **Back Button:** Tap the back icon to return to the previous screen.
- **Recent Apps:** Tap the recent apps icon to view and switch between recently used applications.



Figure 5.1: The primary user interface of the Biorunn car stereo, displaying common application icons for navigation and entertainment.

5.2 Android Auto & Car-Play

The unit supports both Wireless and Wired Car-Play and Android Auto for seamless smartphone integration.

- **Wired Connection:** Connect your smartphone to one of the USB ports using a certified USB cable. The system will automatically prompt you to launch Car-Play or Android Auto.
- **Wireless Connection:** Ensure Bluetooth and Wi-Fi are enabled on your smartphone. Pair your phone with the head unit via Bluetooth. Once paired, the system should prompt you to enable wireless Car-Play/Android Auto. Follow the on-screen instructions.
- Access phone calls, messages, navigation (Maps), and music directly from the head unit's display.



Figure 5.2: Visual confirmation of Carplay and Android Auto compatibility, highlighting the integration features.

5.3 Bluetooth Function (BT 5.0)

Connect your smartphone via Bluetooth for hands-free calling and audio streaming.

1. Go to the "BT" or "Bluetooth" application on the head unit.
2. Enable Bluetooth on your smartphone and search for available devices.
3. Select "Biorunn Car Stereo" (or similar name) from the list on your phone.
4. Confirm the pairing code on both devices.
5. Once connected, you can make/receive calls, access your phonebook, and stream music.

Support BT Function

Phonebook with name search function and caller name display directly. Incoming calls, dialed calls, missed calls with caller ID. Support BT music streaming.



Figure 5.3: The Bluetooth interface, demonstrating the phonebook search function, caller ID display, and BT music streaming capabilities.

5.4 FM RDS Radio

Tune into your favorite radio stations with RDS support.

- Open the "FM Radio" application.
- Use the scan function for automatic station search or manually tune to a frequency.
- Save your preferred stations to the 18 preset slots.
- RDS (Radio Data System) provides additional information like station name and song title where available.

FM RDS Radio

It supports automatic search and manual search, You can drag the icon of target station and replace it into channel list.

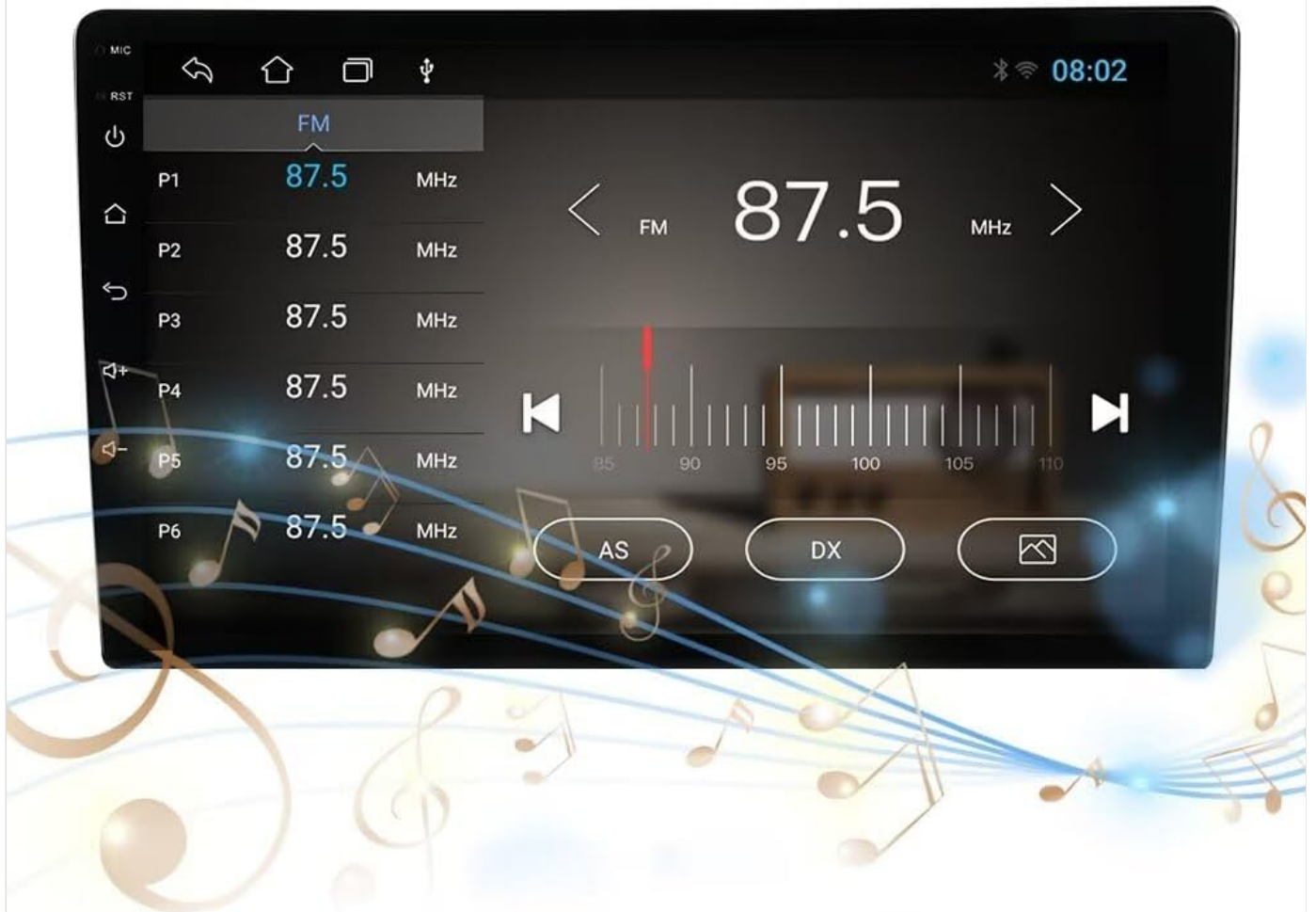


Figure 5.4: The FM RDS Radio interface, illustrating automatic and manual search functions, and the ability to save target stations.

5.5 GPS Navigation

The unit features a built-in global positioning system for navigation.

- Ensure the GPS antenna is properly installed and has a clear view of the sky.
- Open the pre-installed navigation application (e.g., Google Maps, Waze) or download your preferred navigation app from the Google Play Store (requires Wi-Fi connection).
- Enter your destination and follow the voice-guided directions.

5.6 Split Screen Function

Utilize the split-screen feature to run two applications simultaneously for enhanced convenience.

- Open the first application you wish to use.
- Tap the "Recent Apps" button (usually a square icon).
- Long-press the icon of the first app in the recent apps list and drag it to one side of the screen (left or right).
- Select the second application from the recent apps list or app drawer to fill the other half of the screen.

Support split screen

Support for two applications to be displayed on the screen at the same time which makes the operation more convenient and faster

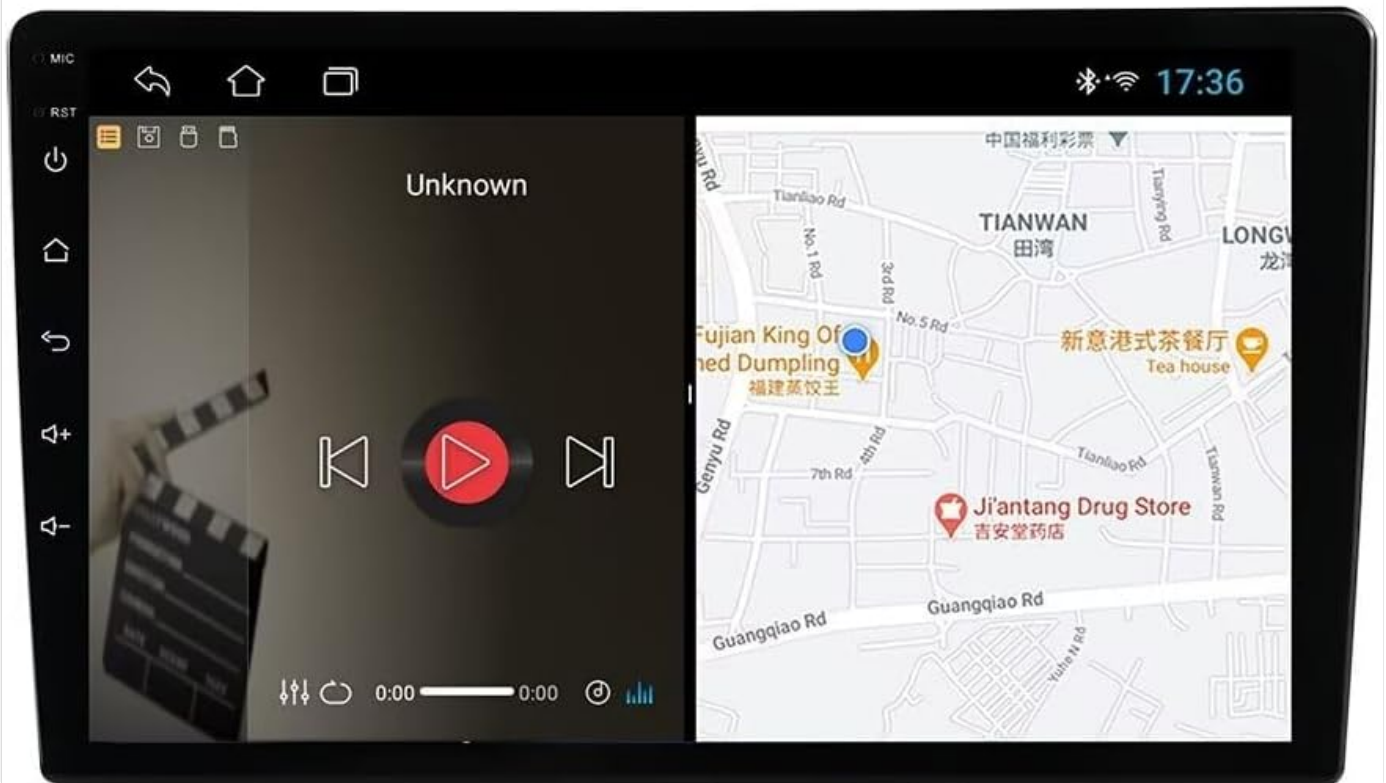


Figure 5.5: The split-screen functionality, demonstrating the ability to display two applications concurrently, such as a media player and a navigation map.

5.7 Reversing Video Input

The unit supports a rearview camera input for safer parking and reversing. (Camera not included)

- Connect your rearview camera to the dedicated "Camera Input" port on the back of the head unit.
- Ensure the camera's power is connected to the vehicle's reverse light circuit so it activates when shifting into reverse.
- The display will automatically switch to the camera view when the vehicle is in reverse gear.

Reversing Video

Note: Camera is not included

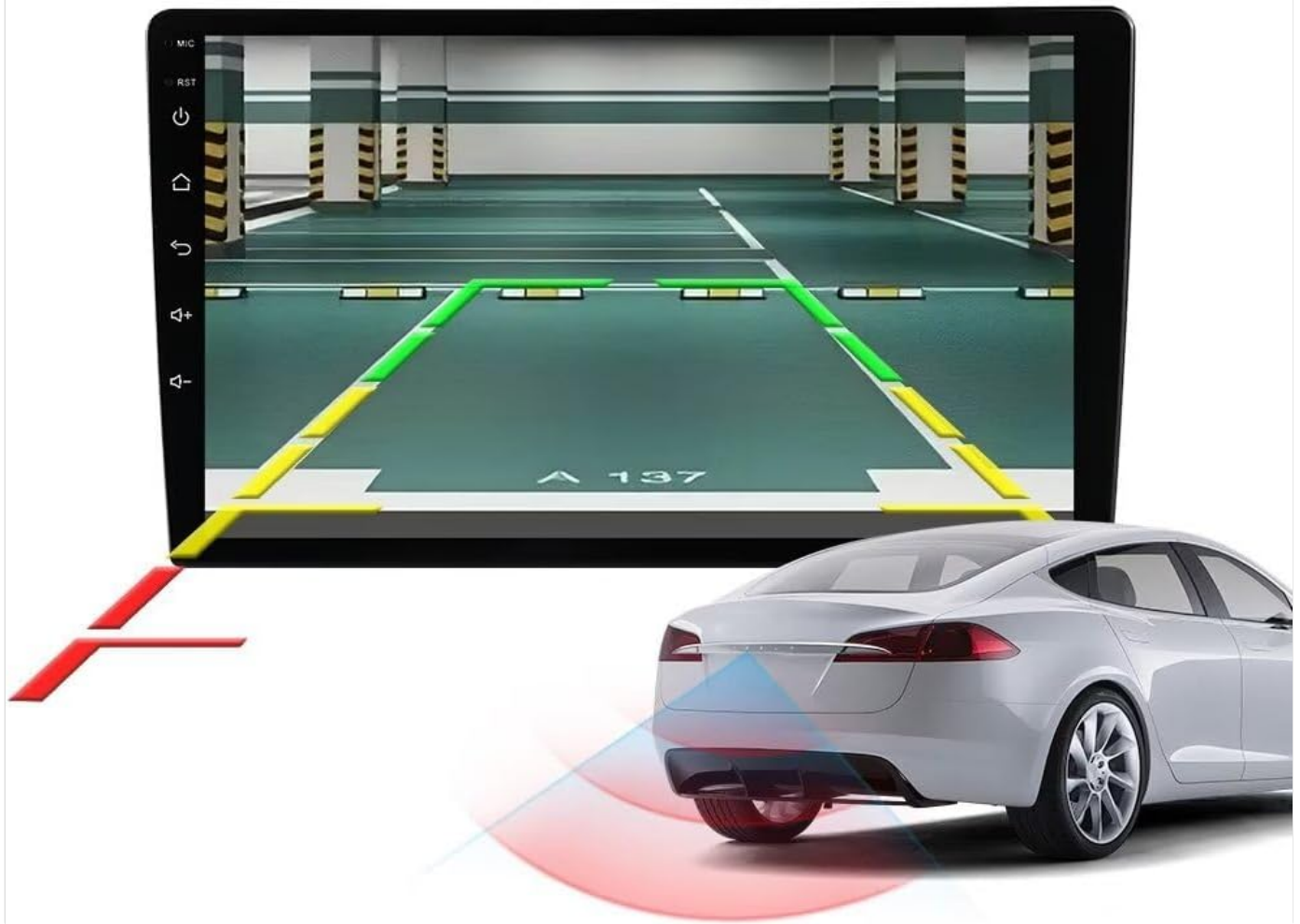


Figure 5.6: The reversing video display, showing parking guidelines and the rear view from a connected camera. Note: Camera is not included with the unit.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your car stereo.

- **Screen Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner specifically designed for electronic displays. Do not use abrasive cleaners or solvents.
- **General Cleaning:** Wipe the unit's exterior with a dry, soft cloth. Avoid spraying liquids directly onto the unit.
- **Software Updates:** Periodically check for software updates from the manufacturer's official website or through the unit's system settings (if available) to ensure the latest features and bug fixes.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for prolonged periods, as this can affect performance and lifespan.

7. TROUBLESHOOTING

If you encounter issues with your Biorunn car stereo, refer to the following common problems and solutions. If the problem

persists, contact customer support.

Problem	Possible Cause	Solution
Unit does not power on.	No power connection; Blown fuse; Incorrect wiring.	Check power (B+, ACC) and ground connections. Inspect vehicle's fuse box and the unit's fuse. Verify wiring according to the diagram.
No sound from speakers.	Speaker wires disconnected or shorted; Volume too low; Mute function active; Incorrect audio source.	Check all speaker connections. Increase volume. Deactivate mute. Select correct audio source (e.g., FM, Bluetooth, USB).
GPS signal is weak or lost.	GPS antenna improperly installed or obstructed; Poor satellite coverage.	Ensure GPS antenna is mounted in a clear, unobstructed location. Move to an open area for better signal.
Bluetooth connection issues.	Bluetooth not enabled on phone/unit; Incorrect pairing; Interference.	Ensure Bluetooth is on for both devices. Delete previous pairings and re-pair. Move phone closer to the unit.
Touch screen unresponsive.	System freeze; Software glitch.	Perform a soft reset (press the RST button with a thin object, if available) or power cycle the unit by turning off the vehicle ignition and restarting.

8. SPECIFICATIONS

Feature	Detail
Operating System	Android 13
CPU	4-Core
RAM	1GB
ROM	32GB
Screen Size	9 Inches
Display Resolution	1280 x 720 IPS Touch Screen
Bluetooth Version	BT 5.0
Connectivity	Wi-Fi, Wireless/Wired Car-Play, Wireless/Wired Android Auto
Radio Tuner	FM RDS (18 preset stations)
GPS	Built-in Global Positioning System
USB Ports	2 (USB1, USB2)
Audio Formats Supported	MP3, WMA, AAC, RM, FALC etc.
Video Formats Supported	MPEG-1/2/4, H264, H263, VC1, RV, RMVB, DivX, Sorenson Spark, Spark, VP8, AVS Stream

Feature	Detail
Photo Formats Supported	JPG/BMP/JEPG/GIF/PNG
Steering Wheel Control	Supported
Vehicle Compatibility	Suzuki Grand Vitara 2006-2013

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact Biorunn customer service directly. Keep your proof of purchase for warranty claims.

Customer Service: Refer to the contact information provided on the product packaging or the official Biorunn website.