

Biorunn A: No Factory Navi Screen 8-Core,8GB+128GB

Biorunn Android 9 Inch Car Stereo User Manual

For Benz Smart 453 Fortwo (2015-2020) - Model: A: No Factory Navi Screen

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Biorunn Android 9 Inch Car Stereo. This unit is specifically designed for Benz Smart 453 Fortwo vehicles manufactured between 2015 and 2020, for models **without** a factory navigation screen. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. SETUP AND INSTALLATION

2.1. Compatibility Check

This unit is compatible with Benz Smart 453 Fortwo models from 2015-2020 that **do not** have a factory navigation screen. If your vehicle is equipped with a factory navigation screen, please ensure you have selected the correct variant (typically designated as 'B' models).

2.2. Package Contents

Verify that all components are present in your package:

- Biorunn 9 Inch Android Head Unit
- Power Cable Harness
- RCA Cable Set
- GPS Antenna
- USB Cables (x2)
- Microphone (MIC)
- Reversing Camera Input Cable (Camera not included)
- CANbus Decoder Box (may include multiple types; use the one compatible with your vehicle)

Powerful Cooling fan

Equipped with powerful cooling fan to solve the problem of operation in long-term use or high temperature environment and also maintain stable operation



Figure 2.2.1: Head Unit Dimensions and Included Accessories

This image illustrates the physical dimensions of the 9-inch head unit and the various cables and accessories typically included in the package, such as the power cable, RCA cables, GPS antenna, USB cables, and microphone.

2.3. Installation Steps

1. **Preparation:** Disconnect the vehicle's battery before beginning installation. Remove the original car stereo and trim panels carefully.
2. **Wiring Connections:** Connect the main power harness, RCA cables, GPS antenna, USB cables, and microphone to the corresponding ports on the new head unit. Ensure all connections are secure.
3. **CANbus Decoder:** Connect the appropriate CANbus decoder box to the vehicle's wiring harness. If multiple CANbus boxes are provided, identify and use the one that fits your vehicle's system (e.g., 'SimpleSoft' or 'Hiworld').
4. **JBL Stereo System (Specific Note):** If your Smart Fortwo is equipped with a JBL stereo system and you experience no audio after installation, locate the pink wire from the car's harness. This wire needs to be manually spliced into the 'AMP CONTD' wire coming from the new stereo's harness to activate the amplifier.

5. **Steering Wheel Controls:** Ensure the steering wheel control wires are correctly connected. In some cases, a specific part of the harness may need to be looped back into itself for the controls to function. Refer to the wiring diagram provided with the unit or contact support if issues persist.
6. **Test Fit:** Before fully securing the unit, connect the battery and perform a brief functional test to ensure the unit powers on, audio works, and basic functions are operational.
7. **Secure Unit:** Carefully install the head unit into the dashboard opening and reattach all trim panels.



Figure 2.3.1: Before and After Installation Comparison

This image provides a visual guide, showing the original dashboard configurations (standard radio 'A' and factory navigation 'B') and the final appearance of the Biorunn Android stereo after successful installation.

3. OPERATING INSTRUCTIONS

3.1. Basic Operation

The Biorunn Android head unit features a 9-inch IPS touchscreen with a resolution of 1280x720 pixels. Navigate the interface by touching icons and swiping. The unit runs on an Android operating system, providing access to various

applications and settings.

3.2. Wireless Car-Play and Android Auto

The unit supports both wireless and wired Car-Play (for iOS devices) and Android Auto (for Android devices), allowing seamless integration of your smartphone's features.

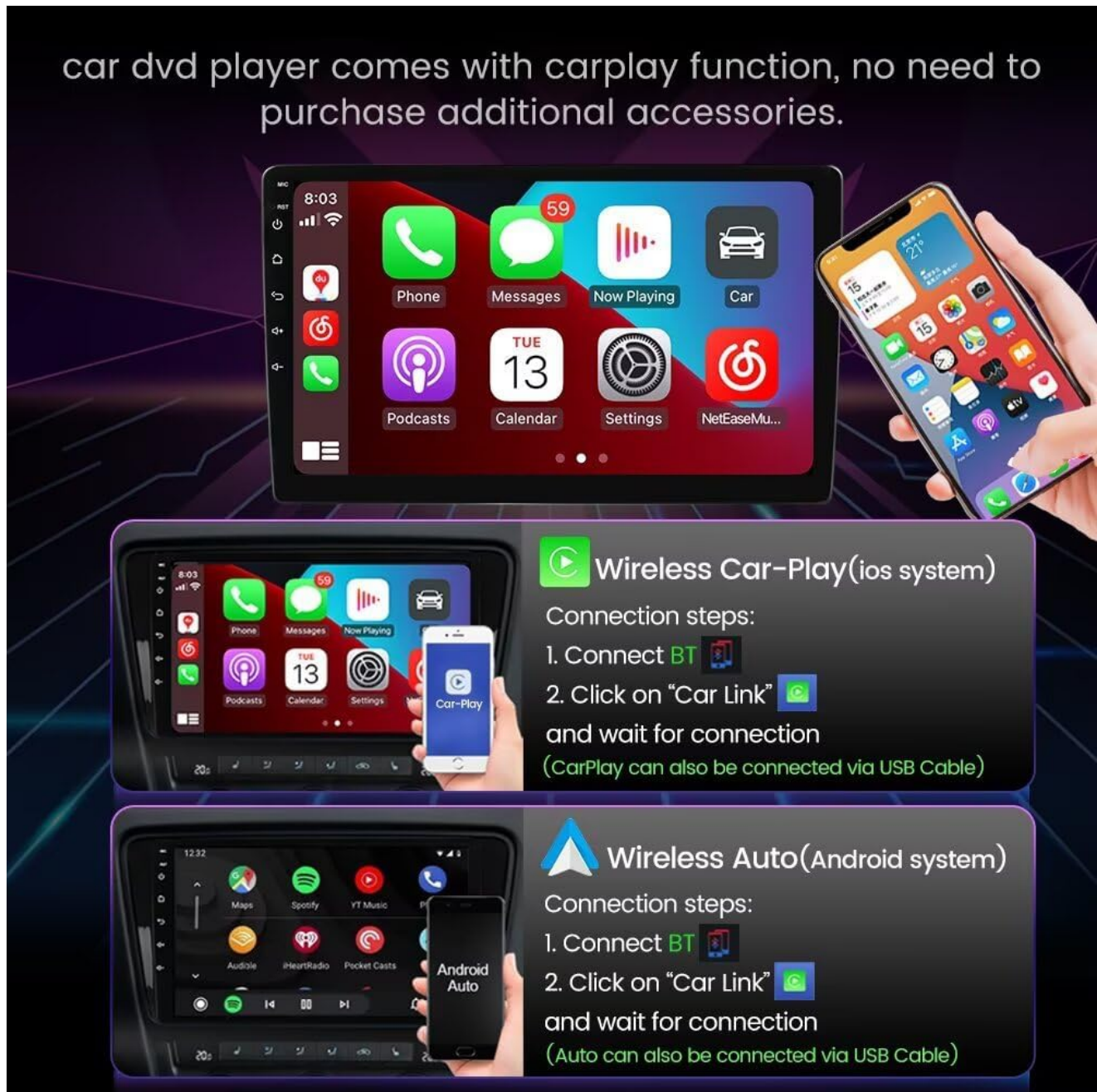


Figure 3.2.1: Wireless Car-Play/Android Auto Connection

To connect:

1. Enable Bluetooth on your smartphone and connect it to the head unit.
2. On the head unit, open the application named "Car Link" (or similar).
3. Wait for the connection to establish. You can also connect via a USB cable for a wired connection.

3.3. GPS Navigation

The unit includes a built-in global positioning system (GPS) with support for GPS, BDS, and GLONASS. It offers omni-directional map display and real-time traffic conditions. The system supports various navigation applications.

GPS NAVIGATION

Built-in global positioning system, omni-directional map display, synchronous display real-time traffic conditions, rapid and accurate positioning

GPS BDS GLONASS

The following maps are supported



For Navitel



For iGO



For Mapbox



For Google



Figure 3.3.1: GPS Navigation Interface

The image displays the navigation interface, highlighting supported map applications and real-time route information.

3.4. Bluetooth Functionality

Equipped with Bluetooth 5.0, the unit supports hands-free calling, phone book synchronization, and Bluetooth music streaming. This allows for safer communication and entertainment while driving.

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.



BT
music



sync
contacts



Synchronous
call record



It is not safe to look at the phone and answer the phone while driving

Figure 3.4.1: Bluetooth Features

This image illustrates the Bluetooth capabilities, including hands-free calling and contact management, emphasizing safe driving practices.

3.5. FM/AM RDS Radio

The built-in FM/AM RDS radio supports automatic and manual station searching. You can save your favorite stations for quick access.



Figure 3.5.1: FM/AM RDS Radio Interface

The image displays the radio interface, showing frequency tuning and preset station management.

3.6. 5GHz WiFi Support

The unit supports 5GHz WiFi (802.11 b/g/n) for fast transmission, low latency, and wide coverage, ensuring a stable internet connection for online features and app downloads.



Figure 3.6.1: 5GHz WiFi Capability

This image points out the 5GHz WiFi antenna and lists the advantages of its high-frequency support.

3.7. Additional Features

- **Split Screen:** Supports running two applications simultaneously on the screen.
- **4G LTE:** Supports 4G LTE connectivity (requires a compatible USB dongle, not included).
- **ADAS DVR:** Supports Anti-collision warning driving recorder (DVR not included).
- **OBD II:** Supports OBD II diagnostic tools (OBD II not included).
- **TPMS:** Supports Tire Pressure Monitoring System (TPMS not included).
- **Multimedia Playback:** Supports various audio (MP3, WMA, AAC, RM, FALC) and video (MPEG-1/2/4, H264, H263, VC1, RV, RMVB, DivX, Sorenson Spark, Spark, VP8, AVS Stream) formats.
- **Multi-language Support:** Includes English, German, French, Spanish, Italian, Portuguese, Russian, Dutch, Polish, Japanese, Simplified & Traditional Chinese, Arabic, etc.

4. MAINTENANCE

4.1. General Care

- Clean the screen with a soft, lint-free cloth. Avoid abrasive cleaners or solvents.
- Keep the unit free from dust and moisture.
- Avoid exposing the unit to extreme temperatures.

4.2. Cooling System

The head unit is equipped with a powerful cooling fan to manage heat generated during long-term operation or in high-temperature environments. This fan helps maintain stable performance and prolong the unit's lifespan.

Powerful Cooling fan

Equipped with powerful cooling fan to solve the problem of operation in long-term use or high temperature environment and also maintain stable operation



Figure 4.2.1: Powerful Cooling Fan

This image highlights the integrated cooling fan on the rear of the unit, designed for thermal management.

5. TROUBLESHOOTING

If you encounter issues, please refer to the following common solutions before contacting support.

Problem	Possible Cause / Solution
No Power	Check all power cable connections. Ensure the vehicle's battery is connected and charged. Check relevant fuses.
No Sound (JBL System)	The pink wire from the car's harness may need to be spliced into the 'AMP CONTD' wire from the stereo's harness.
Steering Wheel Controls Not Working	Verify CANbus decoder connection. Ensure the steering wheel control wires are correctly connected; some harnesses require a specific loop-back connection.
Unit Freezes or Malfunctions	Perform a factory reset through the system settings. Ensure all connections are snug. If the issue persists, contact support.
Wireless Car-Play/Android Auto Not Connecting	Ensure Bluetooth is enabled and paired. Confirm the 'Car Link' app is open on the head unit. Try connecting via USB cable.

For persistent or complex issues, please refer to the support section.

6. SPECIFICATIONS

Feature	Detail
Operating System	Android
Core	8-Core
Screen Size	9 Inch
RAM	8GB
ROM	128GB
Resolution	1280 x 720 (IPS Screen)
Bluetooth	Bluetooth 5.0
DSP Processor	Built-in
Car-Play / Android Auto	Built-in (Wireless/Wired)
Split Screen	Supported
4G LTE	Supported
WiFi	5GHz (802.11 b/g/n)
GPS	Built-in (GPS, BDS, GLONASS)
Radio	FM/AM RDS
Audio Output Mode	Stereo
Mounting Type	Panel Mount or Dashboard Mount

7. WARRANTY AND SUPPORT

7.1. Warranty Information

The Biorunn Android Car Stereo comes with a 1-year manufacturer's warranty, covering defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

7.2. Customer Support

For technical assistance, installation queries, or troubleshooting beyond the scope of this manual, please contact Biorunn customer support. Support contact information is typically provided with your product packaging or can be found on the official Biorunn website or Amazon store page.

When contacting support, please have your product model number (A: No Factory Navi Screen 8-Core, 8GB+128GB) and purchase details ready.

You can visit the [Biorunn Store on Amazon](#) for more information.