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> Biorunn 16-Pin Wiring Harness for Toyota Camry (2018-2020) Aftermarket Stereo with Factory Camera Support

Biorunn 16-Pin Power Plug Connector Wire Harness

Biorunn 16-Pin Wiring Harness for Toyota Camry (2018-2020)

Model: 16-Pin Power Plug Connector Wire Harness

Brand: Biorunn

INTRODUCTION

This manual provides detailed instructions for the installation and use of the Biorunn 16-Pin Wiring Harness. This product is designed to facilitate the connection of an aftermarket car stereo radio in Toyota Camry models from 2018 to 2020, specifically enabling the functionality of the vehicle's existing factory camera system without requiring a CANbus interface. Please read this manual thoroughly before installation to ensure proper operation and safety.

SAFETY INFORMATION

- Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits and electrical shock.
- Ensure all connections are secure and properly insulated to avoid electrical hazards.
- If you are unsure about any step, consult a professional car audio installer.
- Do not modify the wiring harness. Unauthorized modifications can lead to damage or malfunction.
- Verify compatibility with your specific vehicle model and aftermarket stereo before installation.

PACKAGE CONTENTS

- 1 x Biorunn 16-Pin Wiring Harness

PRODUCT OVERVIEW

The Biorunn 16-Pin Wiring Harness provides the necessary connections for integrating an aftermarket car stereo with your Toyota Camry's electrical system, including the factory camera. It features a main power plug, speaker wires, and specific connections for auxiliary input and camera signals.



Figure 1: Overview of the Biorunn 16-Pin Wiring Harness. This image displays the complete wiring harness with various connectors and color-coded wires, designed for aftermarket stereo installation in Toyota Camry vehicles.

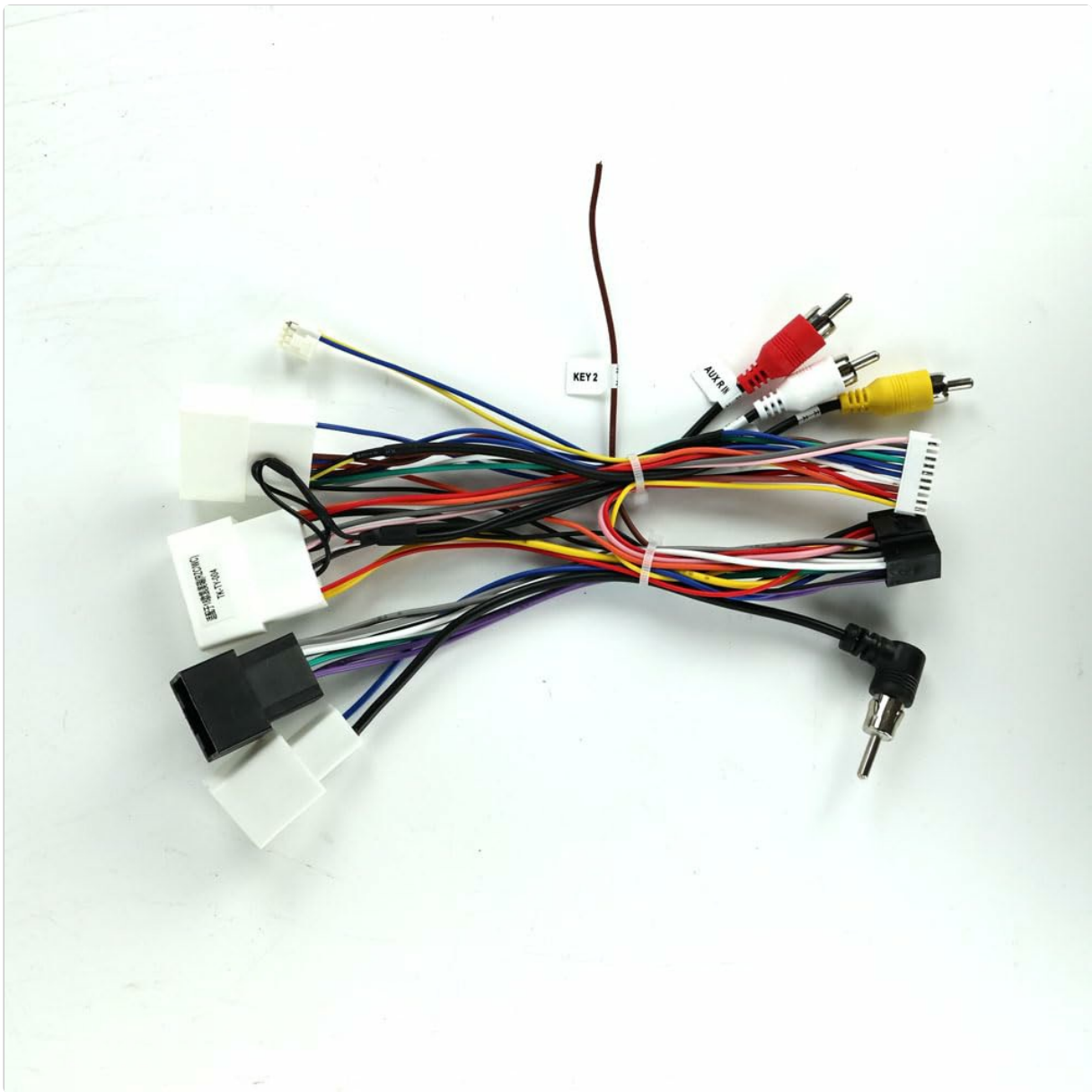


Figure 2: Detailed view of the wiring harness connectors. This image highlights the various plugs and RCA connectors, including those labeled "KEY2" and "AUX R/L", which are crucial for integrating with the vehicle's audio and control systems.

SETUP AND INSTALLATION

Follow these steps carefully to install the wiring harness.

1. **Prepare the Vehicle:** Ensure the vehicle's ignition is off and disconnect the negative terminal of the car battery.
2. **Remove Factory Stereo:** Carefully remove the factory car stereo from the dashboard. Refer to your vehicle's service manual for specific instructions on panel removal.
3. **Identify Connectors:** Locate the factory wiring harness connectors in your Toyota Camry.
4. **Connect the Biorunn Harness:**
 - Connect the main 16-pin power plug of the Biorunn harness to the corresponding connector from your aftermarket stereo.
 - Connect the vehicle-specific connectors on the Biorunn harness to the factory wiring harness in your Toyota Camry.

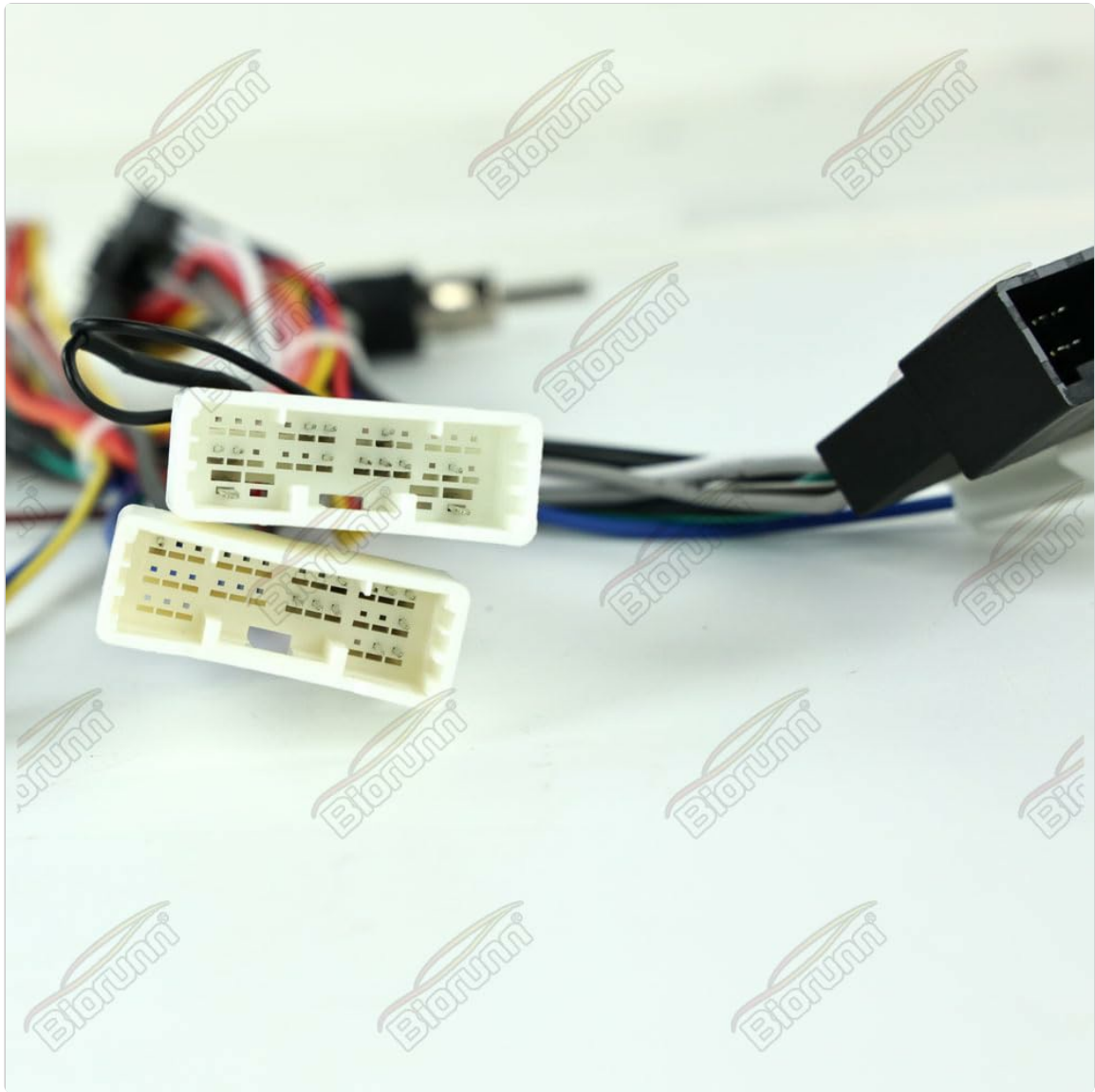


Figure 3: Close-up of the white connectors on the harness. These connectors are designed to interface with specific ports in the Toyota Camry's factory wiring.



Figure 4: View of the black and white connectors. The black connector typically handles power and speaker outputs, while the white connectors are often for auxiliary functions or specific vehicle interfaces.



Figure 5: Another perspective of the harness connectors. This image shows the various plugs and their arrangement, aiding in correct identification during installation.

- 5. Connect Factory Camera:** This harness is designed to work with the factory camera. Ensure the camera input wires from the Biorunn harness are connected to the corresponding camera input on your aftermarket stereo. *Note: If your aftermarket stereo came with a CANbus decoder, this harness should work in conjunction with it to enable factory camera functionality.*
- 6. Test Connections:** Before reassembling the dashboard, reconnect the vehicle battery and test the aftermarket stereo and factory camera functionality.
- 7. Reassemble:** Once all functions are verified, carefully reassemble the dashboard components.

OPERATING THE SYSTEM

After successful installation, your aftermarket stereo should power on and function correctly. The primary benefit of this harness is to retain the use of your vehicle's factory backup camera. When the vehicle is shifted into reverse, the camera feed should automatically display on your aftermarket stereo's screen.

MAINTENANCE

The Biorunn wiring harness is a passive component and requires no regular maintenance. Ensure all connections remain secure and free from moisture or physical damage. If you need to remove or replace your stereo, follow the installation steps in reverse.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Aftermarket stereo has no power.	Loose power connection; Blown fuse; Battery not reconnected.	Check all power connections. Verify vehicle fuses. Ensure battery is properly reconnected.
Factory camera not working.	Incorrect camera input connection; Aftermarket stereo not configured for camera; Missing CANbus (if required by stereo).	Verify camera input wires are correctly connected to the aftermarket stereo. Check stereo settings for camera activation. If your stereo requires a CANbus for camera functionality, ensure it is installed and working with this harness.
No sound from speakers.	Loose speaker wire connections.	Check all speaker wire connections between the harness and the stereo, and between the harness and the vehicle.

SPECIFICATIONS

- **Product Type:** 16-Pin Wiring Harness
- **Compatibility:** Toyota Camry 2018, 2019, 2020 (for aftermarket car stereo installation with factory camera support)
- **CANbus:** Not included (designed to work without or in conjunction with an existing CANbus from the stereo)
- **Dimensions:** Approximately 6 x 6 x 1.6 inches
- **Weight:** Approximately 3.21 ounces
- **Manufacturer:** Shenzhen Rongnan International Electronics Co., Ltd.

WARRANTY AND SUPPORT

For warranty information or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.