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Bestycar RP5-CH-002 CH-SS-07

Bestycar 16-Pin Car Stereo Wiring Harness User Manual

Model: RP5-CH-002 CH-SS-07

1. Introduction

This manual provides detailed instructions for the installation and operation of the Bestycar 16-Pin Car Stereo Power Retrofit Wiring Harness with CANBUS Decoder. This product is designed to facilitate the installation of an aftermarket Android stereo into compatible vehicles, ensuring seamless integration with existing vehicle systems such as factory navigation, OEM backup camera, and steering wheel controls.
The harness connects the aftermarket stereo to the vehicle's factory wiring without requiring wire cutting, simplifying the installation process. Standard color-coded wires ensure a consistent and straightforward setup.
Important Notice:

- This wiring harness is **not suitable** for Pioneer, Sony, or Keenwood radios.
- It is designed exclusively for aftermarket Android radios equipped with a universal 16-pin power socket.
- If your power harness includes a CANbus decoder, ensure you select the correct car model in your stereo's settings for proper functionality.
- The compatibility list provided is for reference only. Always verify the appearance of the product and your car's connectors before installation.

2. Package Contents

Upon opening the package, verify that all components are present and undamaged:

- 1 x 16 PIN Wiring Harness Connector with CANbus Box (Model: RP5-CH-002 CH-SS-07)



Image: The complete Bestycar 16-Pin Wiring Harness kit, including the main harness, CANbus box, and auxiliary RCA and antenna adapter cables.

3. Compatibility

This wiring harness is compatible with the following vehicle models (all trim levels unless specified):

- Dodge Durango: 2011-2013
- Jeep Gladiator JT: 2020-UP
- Jeep Grand Cherokee: 2014-2019
- Jeep Wrangler JL: 2018-2020
- RAM 1500, 2500, 3500: 2014-2018
- Jeep Challenger (specific years not provided, verify connector)

Ensure your aftermarket Android stereo has a universal 16-pin power socket for compatibility.



Image: Illustration showing the compatible 16-pin power socket on an aftermarket Android stereo, and highlighting that the harness is not suitable for Pioneer, Sony, or Keenwood radios.

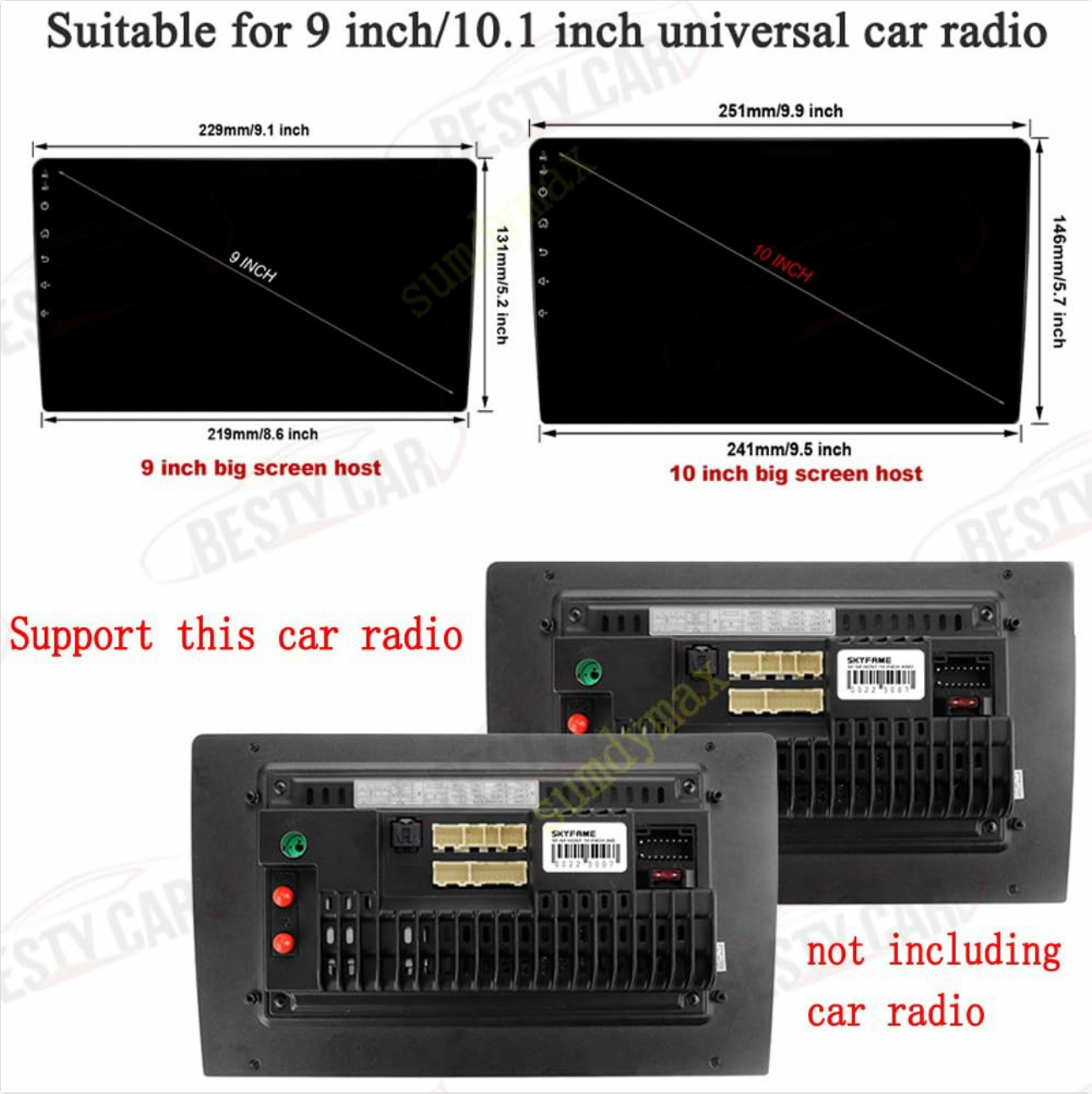


Image: Diagrams illustrating the typical dimensions for 9-inch and 10-inch universal car radios, which are compatible with this harness. The image also shows the rear view of two compatible aftermarket car radios.

4. Setup and Installation

Installation of the Bestycar wiring harness is designed to be plug-and-play, minimizing the need for complex wiring. Follow these steps for a successful installation:

1. **Disconnect Vehicle Battery:** Before beginning any electrical work, disconnect the negative terminal of your vehicle's battery to prevent short circuits and electrical damage.
2. **Remove Factory Radio/Head Unit:** Carefully remove your vehicle's existing factory radio or head unit. Refer to your vehicle's service manual for specific instructions on trim panel and radio removal.
3. **Identify Factory Connectors:** Locate the factory wiring harness connectors behind the radio opening.
4. **Connect Wiring Harness:**
    - Connect the vehicle-specific end of the Bestycar 16-pin wiring harness to the corresponding factory connectors in your vehicle.
    - Connect the 16-pin universal end of the Bestycar harness to the 16-pin power socket on your

aftermarket Android stereo.
    - If applicable, connect the RCA cables for audio output, video input (e.g., backup camera), and other auxiliary functions from the harness to your aftermarket stereo.
    - Connect the antenna adapter cable if required for your vehicle and stereo.
5. **Integrate CANbus Decoder:** The CANbus box (Model: RP5-CH-002 CH-SS-07) is integrated into the harness. This decoder facilitates communication between your aftermarket stereo and the vehicle's CANbus system, enabling features like steering wheel controls, factory navigation support, and OEM backup camera functionality.
6. **Secure Connections:** Ensure all connections are firm and properly seated.
7. **Test Functionality (Before Reassembly):**
    - Reconnect the vehicle battery.
    - Turn on the vehicle ignition and power on the aftermarket stereo.
    - **CANbus Settings:** If your stereo has a CANbus decoder, navigate to the stereo's settings menu and select the correct car model to ensure proper communication and functionality.
    - Test basic audio, steering wheel controls, backup camera (if applicable), and other integrated features.
8. **Reassemble Dashboard:** Once all functions are verified, carefully reassemble the dashboard and secure the aftermarket stereo in place.



Image: Diagram illustrating the typical backside connectors of a factory CD player, showing where the harness connects for power and camera input.

Application scenario

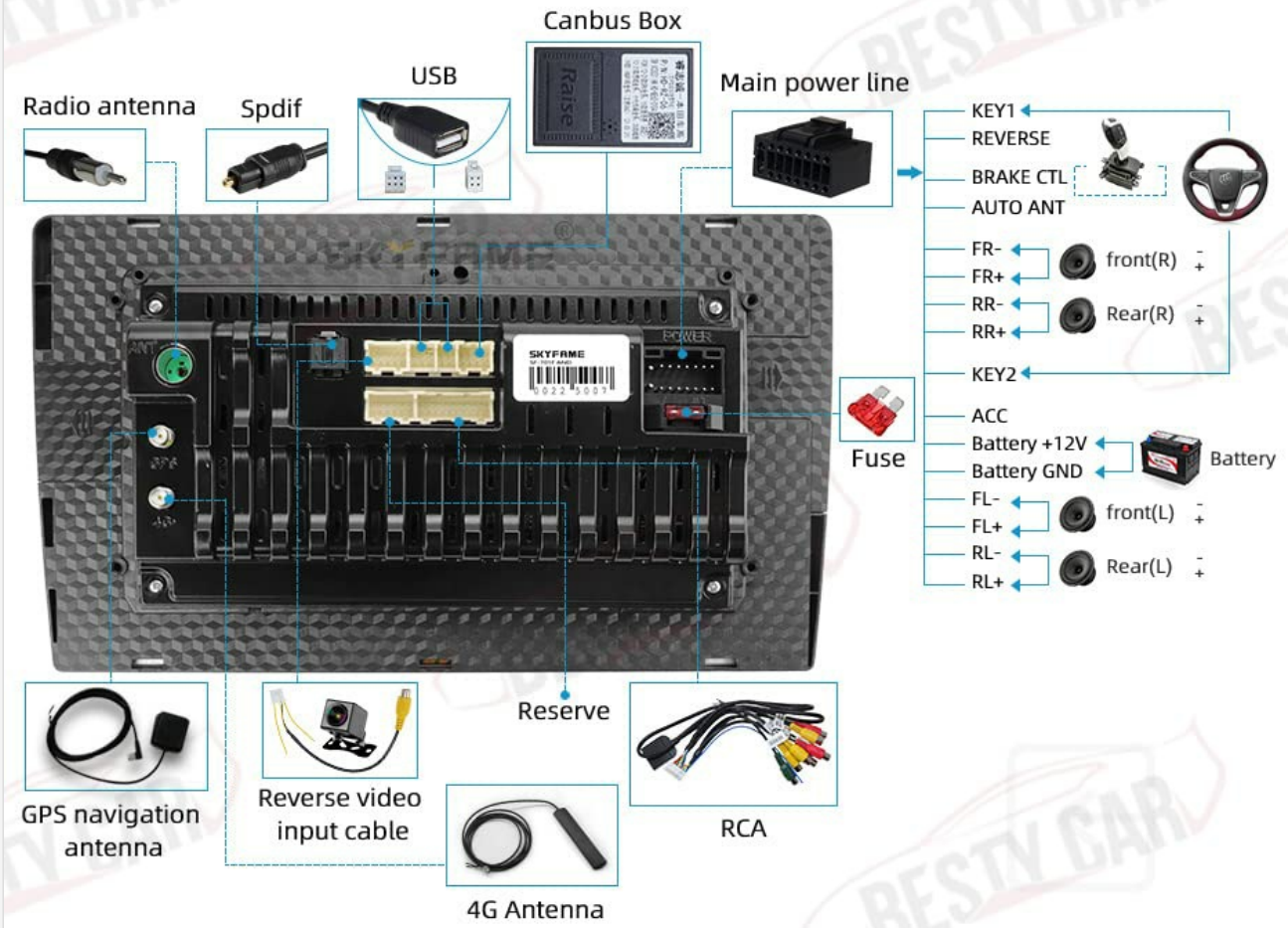


Image: A comprehensive application scenario diagram detailing how the wiring harness connects to various components of an aftermarket Android stereo system, including the main power line, CANbus box, radio antenna, USB, reverse signal, brake control, steering wheel controls, and RCA connections for audio and video.

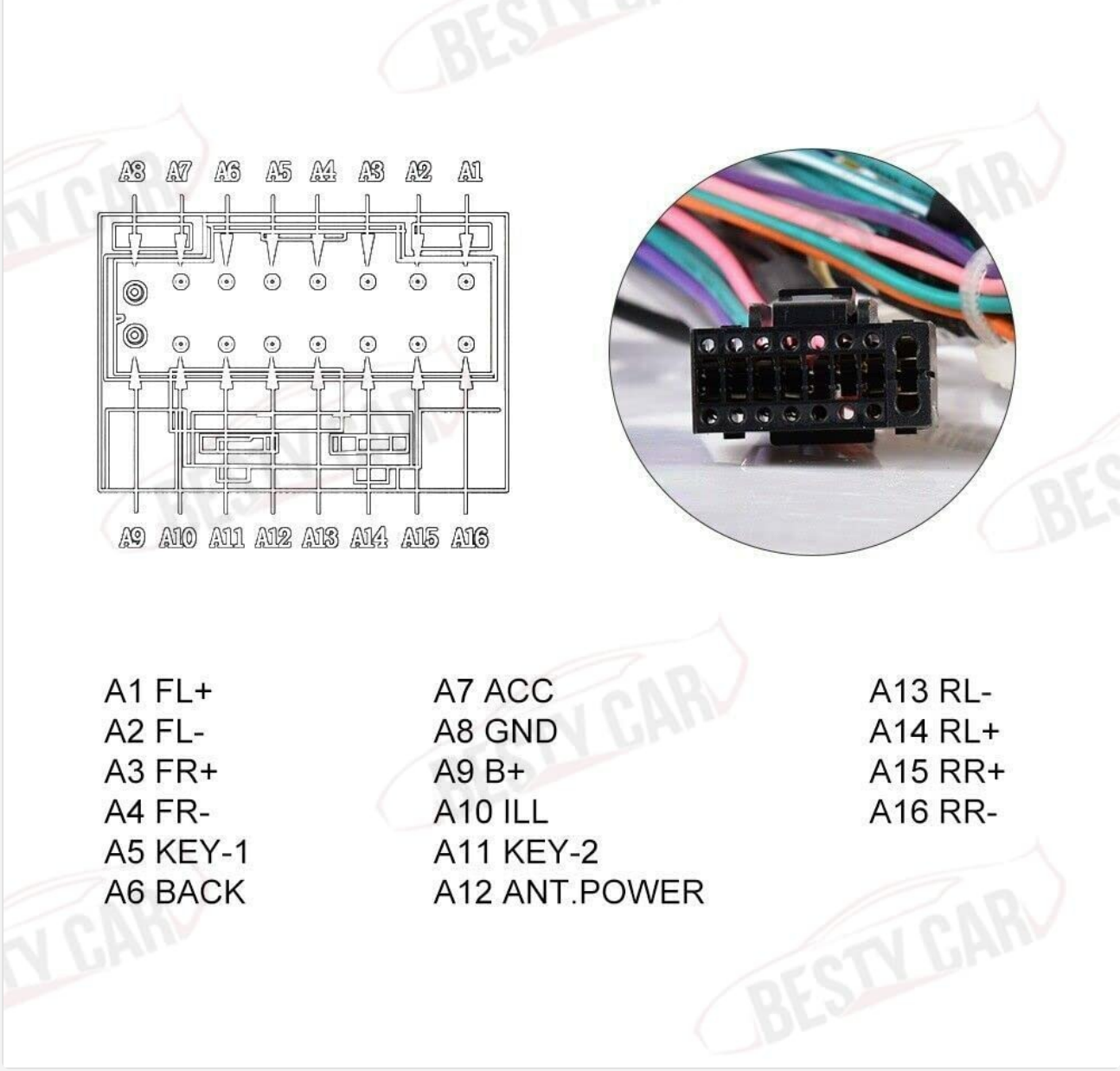


Image: Detailed pinout diagram for the 16-pin universal connector, showing the function of each pin (e.g., FL+, GND, ACC, KEY-1, ANT.POWER).

5. Operating Considerations

Once installed, the wiring harness operates passively, facilitating communication between your vehicle and the aftermarket stereo. Key operating considerations include:

- **Steering Wheel Controls:** The CANbus decoder enables the use of your vehicle's factory steering wheel controls with the aftermarket stereo. Configuration may be required within the stereo's settings.
- **OEM Backup Camera:** If your vehicle has an OEM backup camera, the harness supports its integration with the aftermarket stereo. Ensure the camera input is correctly connected and configured in the stereo settings.
- **Factory Navigation:** The harness supports the retention of factory navigation signals, allowing your aftermarket stereo to utilize relevant vehicle data.
- **Power Management:** The harness provides stable power and ground connections to the aftermarket stereo, ensuring reliable operation.

6. Maintenance

The Bestycar wiring harness is a passive component and requires minimal maintenance. Follow these guidelines:

- **Regular Inspection:** Periodically inspect the connections to ensure they remain secure and free from corrosion or damage.
- **Cleanliness:** Keep the area around the harness connections clean and free of dust or debris.
- **Avoid Stress:** Do not pull or put excessive stress on the wires or connectors, as this can lead to damage.

7. Troubleshooting

If you encounter issues after installing the wiring harness, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Stereo does not power on.	Loose power connection, blown fuse, incorrect wiring.	• Check all harness connections for secure fit. • Verify vehicle battery is connected and charged. • Check the fuse on the aftermarket stereo and vehicle's fuse box.
Steering wheel controls not working.	Incorrect CANbus settings, loose CANbus connection.	• Ensure the correct car model is selected in the aftermarket stereo's CANbus settings. • Verify the CANbus box connection is secure. • Refer to your stereo's manual for steering wheel control programming.
Backup camera not displaying.	Incorrect video input connection, camera not powered, stereo setting.	• Check the RCA video input connection from the harness to the stereo. • Ensure the camera is receiving power. • Verify the stereo's settings for camera input and reverse trigger.
No audio from speakers.	Loose speaker connections, stereo settings.	• Check all speaker wire connections from the harness to the stereo. • Ensure the stereo's volume is up and not muted.

If these steps do not resolve the issue, please contact Bestycar customer support for further assistance. When contacting support, be prepared to provide your product model number (RP5-CH-002 CH-SS-07) and a detailed description of the problem.

8. Specifications

Feature	Detail

Feature	Detail
Product Name	16-Pin Car Stereo Power Retrofit Wiring Harness with CANBUS Decoder
Brand	Bestycar
Model Number	RP5-CH-002 CH-SS-07
CANbus Box Brand	SIMLESOFT(XP)
Compatible Devices	Aftermarket Android Stereo with universal 16-pin power socket
Special Feature	CANbus Communication (Supports factory navigation, OEM backup camera, steering wheel control)
Recommended Use	Automotive audio system integration
Package Dimensions	2.5 x 2 x 0.6 inches
Item Weight	3.2 ounces
Cable Type	Wiring Harness (Note: Product specifications list "USB" as cable type, but this is a wiring harness for car stereo integration.)

9. Warranty and Support

For warranty information or technical support, please contact Bestycar directly. The compatibility list is for reference only; if you are unsure whether the harness fits your car, it is recommended to provide a picture of your factory CD player's backside connector to Bestycar for verification.
Bestycar is a professional car radio harness manufacturer and can provide various harness adapters for different car models and configurations, and can also customize harnesses according to specific requirements.
How to contact Bestycar:
On the product page, click the seller's name "Bestycar", then select "Ask a question" to send a message to the seller.

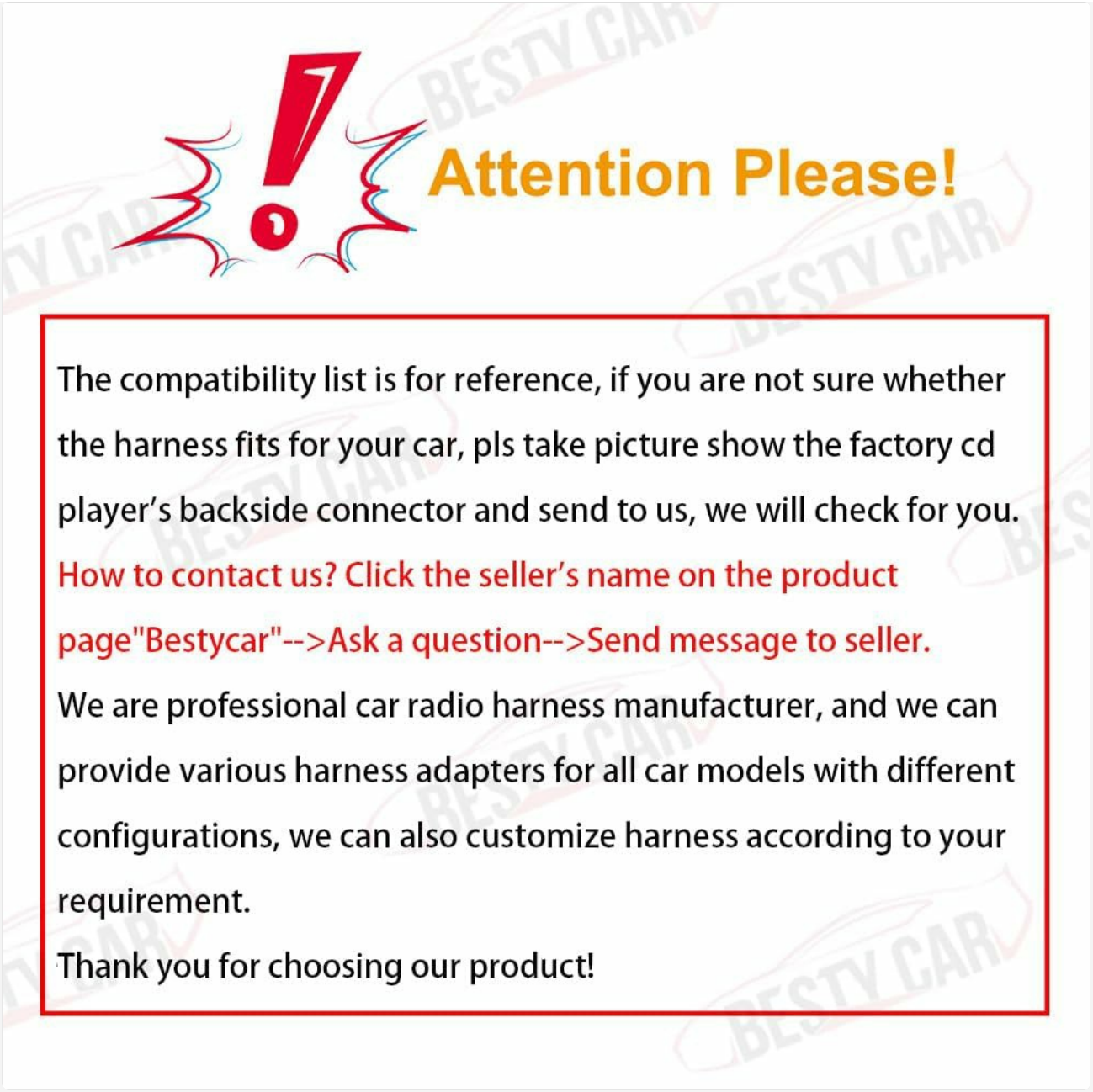


Image: A notice emphasizing the importance of checking compatibility and providing instructions on how to contact the seller, Bestycar, for assistance with compatibility verification or custom harness requests.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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