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Bestycar 16pin Wiring Harness with RP5-CH-001 CANBUS Decoder

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Instruction Manual for Jeep Compass (2017-2020) and Jeep Renegade (2016-2020)

1. Introduction

This manual provides detailed instructions for installing the Bestycar 16pin Car Stereo Radio Power Retrofit Wiring Harness with XP CANBUS Decoder (model RP5-CH-001). This harness is designed to facilitate the installation of an aftermarket Android stereo into specific Jeep vehicle models, ensuring proper power, CANBUS communication, and integration with factory features without cutting original vehicle wiring.
The harness connects the aftermarket stereo to the vehicle's factory wiring, enabling functions such as steering wheel controls, OEM backup camera support, and factory navigation integration where applicable.

2. Product Overview and Package Contents

The Bestycar 16pin Wiring Harness includes the main wiring loom, a CANBUS decoder box, and necessary adapters for a seamless installation.



Image 2.1: The Bestycar 16pin Wiring Harness, including the main harness, RP5-CH-001 CANBUS decoder box, and antenna adapters.

2.1 Package Contents:

- 1 x 16 PIN Wiring Harness Connector with Canbus Box (RP5-CH-001)
- 1 x Radio Antenna Adapter
- 1 x USB Adapter Cable

3. Compatibility and Important Notices

3.1 Vehicle Compatibility:

This wiring harness is compatible with the following vehicle models and trim levels:

- Jeep Compass: 2017-2020 (All Trim Levels)
- Jeep Renegade: 2016-2020 (All Trim Levels)

3.2 Aftermarket Stereo Compatibility:

This retrofit wiring harness is designed exclusively for aftermarket Android radios that feature a universal 16-pin power socket. Please verify your aftermarket stereo has this specific connector type.



Image 3.1: Example of an aftermarket Android stereo's rear panel, highlighting the compatible 16-pin power socket. Ensure your stereo has this connector.

3.3 Incompatible Stereo Brands:

This car radio power harness is NOT suitable for Pioneer, Sony, Kenwood, or ATOTO brand radios.

3.4 Pre-Order Verification:

The compatibility list is for reference only. Before placing an order, it is recommended to visually inspect the appearance of your vehicle's factory radio connectors to ensure they match the harness. If possible, provide your car's model and year, along with clear pictures of the front and back connectors of your factory radio, to the seller for verification.



Image 3.2: Example of factory radio front and back views. Verify your vehicle's factory radio connectors against the harness before installation.

4. Installation Guide

Follow these steps carefully to install the wiring harness and aftermarket stereo. Ensure the vehicle's battery is disconnected before beginning any electrical work.

4.1 Identify Factory Connectors:

Locate and identify the original car radio connectors behind your vehicle's dashboard. Pay attention to the main power connector, FM antenna, and any USB ports.



Image 4.1: Diagram showing typical original car radio connectors, including the FM-ANT, USB, and the main 52-pin power connector. This helps in identifying the correct ports for the harness.

4.2 Connect the Main Harness:

1. Connect the 16-pin connector of the Bestycar harness to the corresponding 16-pin power socket on your aftermarket Android stereo.
2. Connect the vehicle-specific end of the Bestycar harness to the factory wiring harness of your Jeep. Ensure all connections are secure and fully seated.

4.3 Integrate CANBUS Decoder:

The RP5-CH-001 CANBUS decoder box is integrated into the harness. Ensure it is properly connected within the harness assembly. This box translates vehicle data (like ignition, speed, steering wheel controls) for the aftermarket stereo.

4.4 Connect Auxiliary Adapters:

- **Radio Antenna:** Connect the provided radio antenna adapter to the vehicle's factory antenna cable and then to the antenna input on your aftermarket stereo.
- **USB:** If your vehicle has a factory USB port you wish to retain, connect the USB adapter cable from the harness to the aftermarket stereo's USB input.
- **RCA Cables:** Connect any necessary RCA cables for audio output (FL, FR, RL, RR), subwoofer, or auxiliary input from the harness to the corresponding ports on your aftermarket stereo.
- **Reverse Camera Input:** Connect the reverse video input cable from the harness to the camera input on your aftermarket stereo.
- **GPS Antenna / 4G Antenna:** If your aftermarket stereo requires external GPS or 4G antennas, connect them directly to the stereo as per its manual.



Image 4.2: Comprehensive diagram illustrating the connection points for the CANBUS box, main power line, radio antenna, USB, SPDIF, GPS antenna, reverse video input, 4G antenna, RCA outputs, and steering wheel controls on an aftermarket Android stereo.

4.5 Final Checks:

Before reassembling the dashboard, reconnect the vehicle's battery. Turn on the ignition and test the aftermarket

stereo's functions, including power, audio, steering wheel controls, and reverse camera (if installed).

5. Wiring Diagram (16-Pin Connector Pinout)

This diagram details the pin assignments for the 16-pin connector on the Bestycar wiring harness, which connects to the aftermarket Android stereo. This information is crucial for advanced troubleshooting or custom wiring needs.

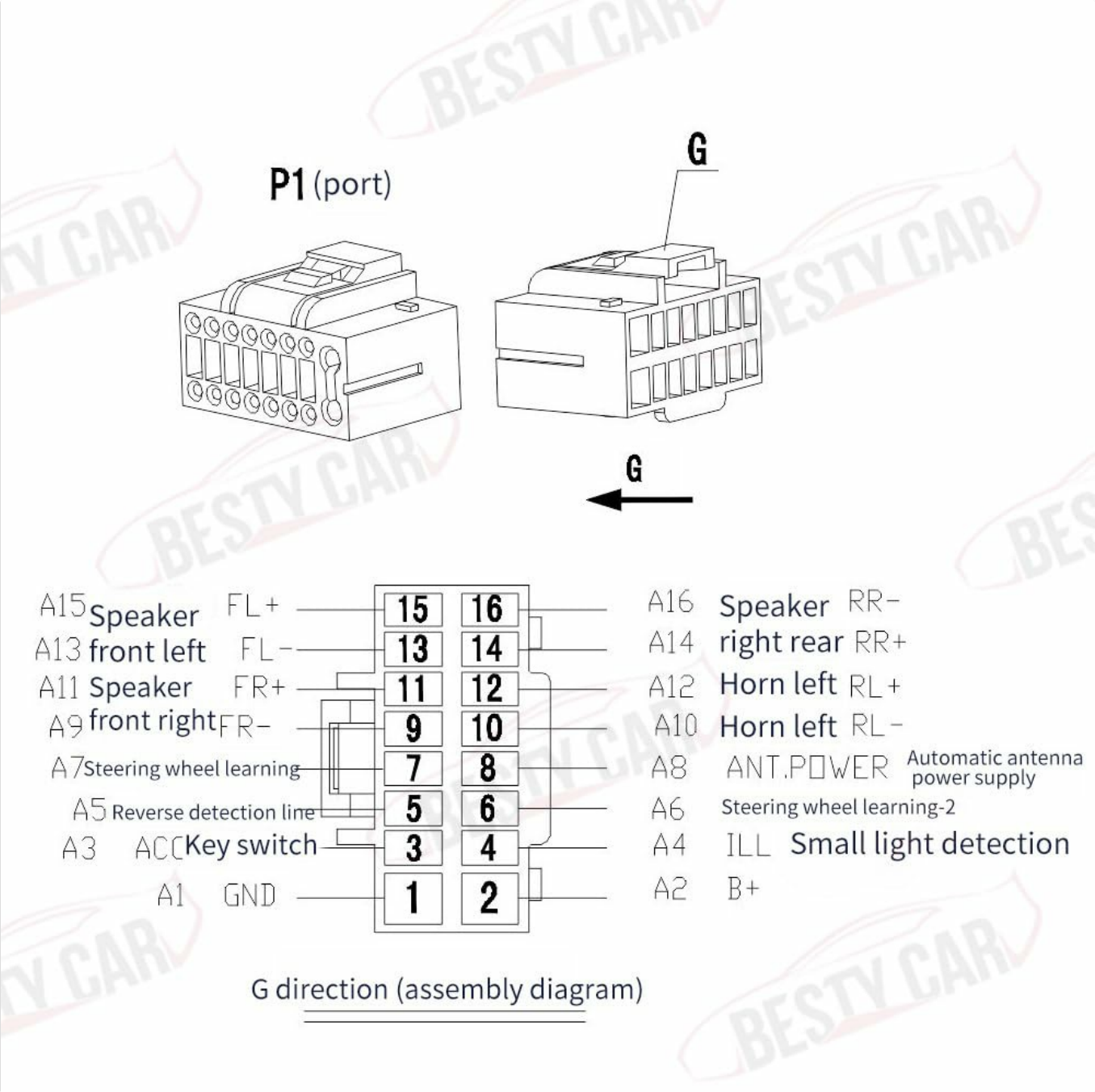


Image 5.1: Detailed pinout for the 16-pin P1 port connector, showing assignments for speakers, steering wheel controls, ACC, ground, battery, and other signals. The 'G' direction indicates the assembly orientation.

16-Pin Connector Pinout (P1 Port)

Pin No.	Function	Wire Color (Typical)
A1	GND (Ground)	Black
A2	B+ (Battery +12V)	Yellow

Pin No.	Function	Wire Color (Typical)
A3	ACC (Key Switch)	Red
A4	ILL (Small Light Detection)	Orange
A5	Reverse Detection Line	Brown
A6	Steering Wheel Learning-2	Green/White
A7	Steering Wheel Learning-1	Blue/White
A8	ANT.POWER (Automatic Antenna Power Supply)	Blue
A9	Front Right Speaker FR-	Gray/Black
A10	Horn Left RL-	White/Black
A11	Front Left Speaker FL-	White/Black
A12	Horn Left RL+	White
A13	Front Left Speaker FL+	White
A14	Right Rear Speaker RR+	Purple
A15	Speaker FL+	Green
A16	Speaker RR-	Purple/Black

6. Operation and CANBUS Settings

After installation, it is crucial to configure your aftermarket Android stereo to recognize the CANBUS decoder and your specific vehicle model.

1. Power on your aftermarket Android stereo.
2. Navigate to the stereo's system settings or factory settings menu. (Consult your stereo's manual for specific menu paths, often requiring a factory password).
3. Locate the CANBUS settings or vehicle type selection.
4. Select the correct car model (e.g., Jeep Compass 2017-2020 or Jeep Renegade 2016-2020) from the available options. The CANBUS box brand is SIMLESOFT (XP), which may be listed in the stereo's settings.
5. Save the settings and restart the stereo if prompted.

Proper CANBUS configuration ensures that steering wheel controls, ignition status, and other vehicle data are correctly communicated to the stereo.

7. Troubleshooting

If you encounter issues after installation, refer to the following common troubleshooting steps:

- **No Power to Stereo:**
  - Check all harness connections to ensure they are secure.
  - Verify the vehicle's fuse for the radio is intact.
  - Ensure the 16-pin connector is fully seated into the aftermarket stereo.

- **No Sound:**
  - Confirm speaker wires are correctly connected according to the pinout diagram (Section 5).
  - Check stereo's audio settings (volume, mute, fader/balance).
- **Steering Wheel Controls Not Working:**
  - Ensure the CANBUS settings in the stereo are correctly configured for your vehicle (Section 6).
  - Verify the steering wheel control wires (A6, A7) are properly connected.
- **Backup Camera Not Displaying:**
  - Check the reverse video input cable connection.
  - Ensure the reverse detection line (A5) is correctly wired and the stereo is configured to detect reverse gear.
- **Radio Reception Issues:**
  - Confirm the radio antenna adapter is securely connected.
  - Ensure the automatic antenna power supply (A8) is providing power to an amplified antenna if present.

If issues persist, consult the aftermarket stereo's instruction manual or contact Bestycar customer support.

8. Specifications

- **Product Type:** 16pin Car Stereo Radio Power Retrofit Wiring Harness Cable Adapter
- **CANBUS Decoder Model:** RP5-CH-001 (XP)
- **Brand:** Bestycar
- **Compatible Car Models:** Jeep Compass (2017-2020), Jeep Renegade (2016-2020)
- **Compatible Stereo Type:** Aftermarket Android radios with universal 16pin power socket
- **Weight:** Approximately 3.2 ounces (90 grams)
- **Package Dimensions:** Approximately 2.5 x 2 x 0.6 inches (6.35 x 5.08 x 1.52 cm)

9. Maintenance

The Bestycar wiring harness is designed for durability and requires minimal maintenance. Ensure all connections remain secure and free from moisture or excessive vibration. Periodically check for any signs of wear or damage to the wiring, especially if the dashboard has been accessed for other repairs.

10. Warranty and Support

For specific warranty information, please refer to the product listing or contact Bestycar directly. Typically, Bestycar products come with a standard manufacturer's warranty covering defects in materials and workmanship.

10.1 Customer Support:

If you require assistance with installation, troubleshooting, or have questions regarding product compatibility, please contact Bestycar customer support through the platform where the product was purchased. Provide your order number and a detailed description of your inquiry for prompt assistance.

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