

XIBEIKE RP5-TY-101

XIBEIKE RP5-TY-101 Car Radio Canbus Box and Cable User Manual for Toyota Vehicles

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the XIBEIKE RP5-TY-101 Car Radio Canbus Box and Cable. This product is designed to integrate aftermarket car radios with the existing Canbus system of compatible Toyota vehicles, enabling functions such as steering wheel controls, reverse gear detection, and other vehicle data communication.

Please read this manual thoroughly before installation to ensure correct setup and optimal performance. Verify all original equipment (OE) parts before proceeding.

2. PRODUCT OVERVIEW

The XIBEIKE RP5-TY-101 system consists of a Canbus decoder box and a dedicated wiring harness. The Canbus box translates signals between your vehicle's Canbus system and your aftermarket car radio, ensuring seamless communication for various vehicle functions. The wiring harness provides the necessary connections for power, speakers, and data lines.



Figure 2.1: Overview of the XIBEIKE RP5-TY-101 Canbus Box and Wiring Harness components. This image displays the main Canbus decoder box, the multi-pin wiring harness with various connectors, and an antenna adapter cable.

3. COMPATIBILITY

This Canbus box and cable system is compatible with various Toyota vehicle models. Please ensure your vehicle's original wiring harness matches the connectors provided in this kit. Compatibility includes, but is not limited to, the following models and years:

- Toyota Camry: 2012-2015, 2015-2017, 2015 (American model)
- Toyota RAV4: 2013-2018
- Toyota Corolla: 2014-2016, 2017
- Toyota Prius: 2013, 2016
- Toyota Highlander/Kluger: 2010-2014, 2009-2014
- Toyota Prado/120: 2014-2017
- Toyota REIZ/Mark X: 2010-2020
- Toyota CHR/IZOA: 2018, and other IZOA/CHR models
- Toyota Harrier: 2015
- Toyota Tundra: 2014
- Toyota Sienna: 2011-2015
- Toyota Fortuner/Covert: 2016-2018
- Toyota Levin: 2014
- Toyota Land Cruiser: 2007-2015, 2016+

- Toyota Tacoma: 2005-2013
- Toyota Noah/Esquire/Voxy: 2014-2017
- Toyota Avalon: 2013

It is crucial to verify the OE (Original Equipment) part numbers and connector types of your vehicle's existing wiring to ensure full compatibility before installation. Discrepancies may require additional adapters or professional assistance.

4. PACKAGE CONTENTS

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

- 1x XIBEIKE RP5-TY-101 Canbus Decoder Box
- 1x Main Wiring Harness with Vehicle-Specific Connectors
- 1x Antenna Adapter Cable (as pictured)



Figure 4.1: Detailed view of the XIBEIKE RP5-TY-101 Canbus box, main wiring harness, and antenna adapter. This image shows the various connectors and the compact Canbus module.

5. SETUP AND INSTALLATION

Installation of the XIBEIKE RP5-TY-101 Canbus Box and Cable requires basic knowledge of car audio wiring. If you are unsure about any steps, it is recommended to seek professional installation to avoid damage to your vehicle or the product.

Safety Precautions:

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure the vehicle is turned off and the parking brake is engaged.
- Use appropriate tools and wear safety glasses.

Installation Steps:

1. **Remove Existing Radio:** Carefully remove your vehicle's factory radio according to your vehicle's service manual. This typically involves removing trim panels and unscrewing the radio unit.
2. **Identify Vehicle Connectors:** Locate the main wiring harness connectors from your vehicle that previously connected to the factory radio.
3. **Connect Canbus Harness:** Connect the vehicle-specific connectors from the XIBEIKE wiring harness to the corresponding connectors in your vehicle. Ensure all connections are secure.
4. **Connect Canbus Box:** Plug the Canbus decoder box into the designated port on the XIBEIKE wiring harness.
5. **Connect to Aftermarket Radio:** Connect the other end of the XIBEIKE wiring harness to your aftermarket car radio. This harness typically includes connections for power, ground, speakers, and data lines (e.g., steering wheel control, reverse signal).
6. **Connect Antenna:** Use the provided antenna adapter cable to connect your vehicle's antenna to your aftermarket radio.
7. **Test Connections:** Before fully reassembling, reconnect the vehicle's negative battery terminal. Turn on the ignition and test the aftermarket radio's basic functions, including power, audio, and any integrated Canbus features like steering wheel controls.
8. **Secure Components:** Once verified, secure the Canbus box and excess wiring to prevent rattling or interference.
9. **Reassemble:** Carefully reassemble the dashboard trim panels and secure the aftermarket radio.

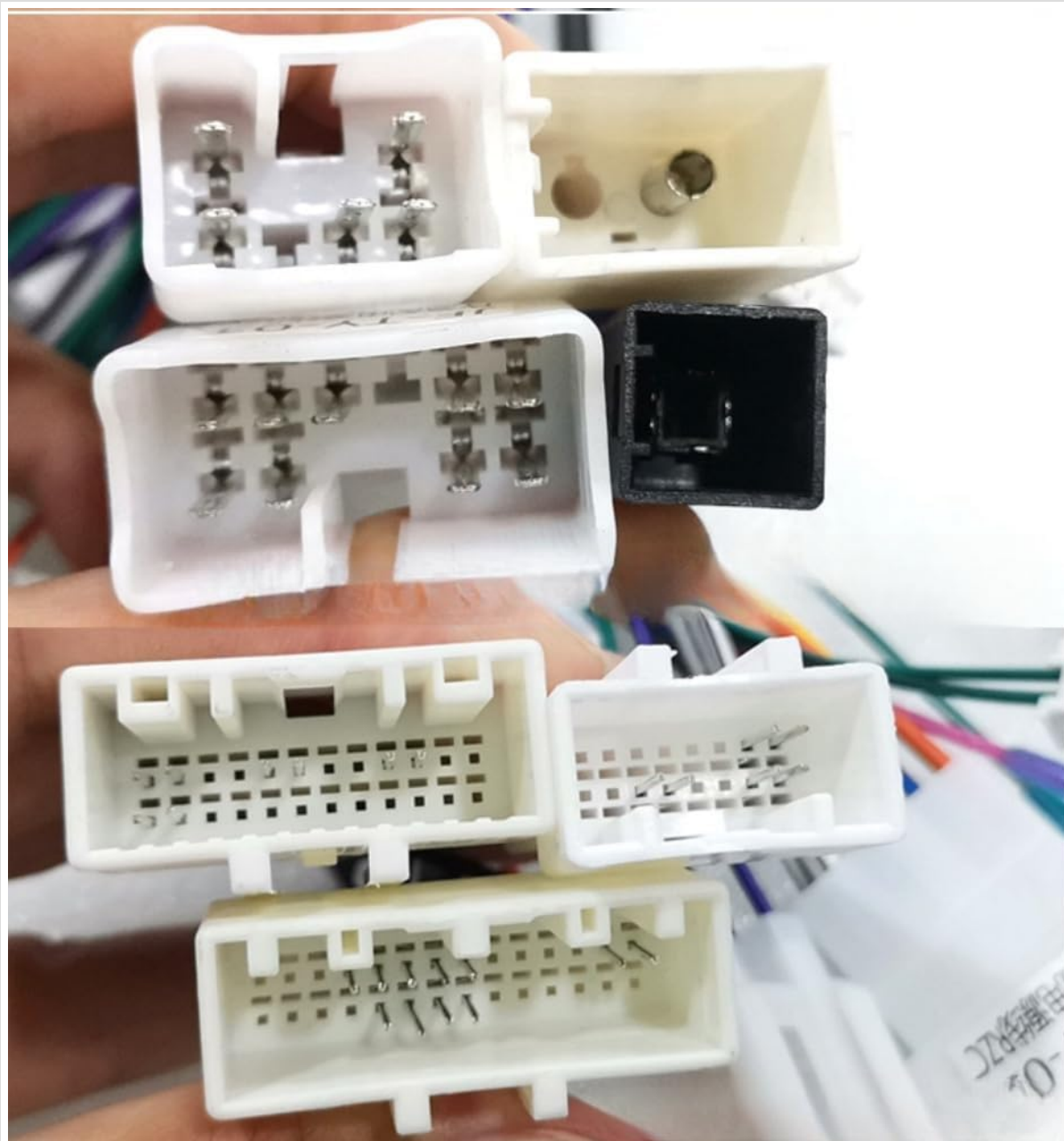


Figure 5.1: Close-up view of various connectors on the XIBEIKE wiring harness. This image highlights the different pin configurations and sizes of the connectors, which should match the vehicle's original wiring.

6. OPERATING INSTRUCTIONS

The XIBEIKE RP5-TY-101 Canbus Box operates automatically once correctly installed. Its primary function is to translate vehicle data from the Canbus system to your aftermarket radio and vice-versa, enabling various features without manual configuration.

Key Functions Enabled:

- **Steering Wheel Controls:** Allows your vehicle's factory steering wheel audio controls (volume, track skip, mode) to function with your new aftermarket radio.
- **Ignition (ACC) Signal:** Provides a switched 12V accessory output for the aftermarket radio, ensuring it turns on and off with the vehicle's ignition.
- **Illumination Signal:** Provides an illumination signal to dim the radio's display when headlights are on (if supported by the radio).
- **Reverse Gear Signal:** Outputs a reverse trigger signal for aftermarket backup cameras or parking assist systems.

- **Speed Pulse Signal:** Provides a vehicle speed sensor (VSS) signal, often used for navigation systems.

No user interaction with the Canbus box itself is required after installation. All operations are managed through your aftermarket car radio's interface.

7. MAINTENANCE

The XIBEIKE RP5-TY-101 Canbus Box and Cable are designed for maintenance-free operation. However, periodic checks can help ensure continued performance:

- **Connection Integrity:** If you experience intermittent issues, inspect the wiring connections behind the radio to ensure they are secure and free from corrosion.
- **Cleanliness:** Keep the area around the Canbus box free from dust and debris.
- **Avoid Physical Damage:** Ensure the Canbus box and wiring are not subjected to excessive heat, moisture, or physical stress.

8. TROUBLESHOOTING

If you encounter issues after installing the XIBEIKE RP5-TY-101, refer to the following troubleshooting guide:

- **No Power to Aftermarket Radio:**
 - Check the vehicle's fuse box for any blown fuses related to the radio or accessory power.
 - Ensure all power and ground connections on the XIBEIKE harness are securely connected to the aftermarket radio and the vehicle.
 - Verify the Canbus box is properly plugged into the harness.
- **Steering Wheel Controls Not Working:**
 - Confirm that your aftermarket radio supports external steering wheel controls and that the corresponding wires from the XIBEIKE harness are connected to the radio's SWC input.
 - Check your aftermarket radio's settings for steering wheel control configuration. Some radios require manual programming.
 - Ensure the Canbus box is receiving power and data.
- **No Reverse Signal or Other Canbus Features:**
 - Verify that the specific feature (e.g., reverse camera trigger) is supported by your aftermarket radio and correctly wired.
 - Double-check all connections between the XIBEIKE harness, Canbus box, and aftermarket radio.
 - Confirm vehicle compatibility for the specific feature.
- **Intermittent Functionality:**
 - Loose connections are a common cause. Re-seat all connectors firmly.
 - Ensure no wires are pinched or damaged during reassembly.

If issues persist after following these steps, contact the seller or a qualified car audio technician for further assistance.

9. SPECIFICATIONS

Brand	XIBEIKE
Model Number	RP5-TY-101 (Canbus Box), XIBEIKE1019 (Item Model Number)
Connector Type	Can Bus
Item Weight	50 Grams (approx. 1.76 ounces)
Package Dimensions	0.39 x 0.39 x 0.39 inches (approximate)
Manufacturer	XIBEIKE

10. WARRANTY AND SUPPORT

Specific warranty details for the XIBEIKE RP5-TY-101 Canbus Box and Cable may vary depending on the retailer and region of purchase. Please refer to your purchase documentation or contact the seller directly for information regarding warranty coverage and return policies.

For technical support or assistance with installation and troubleshooting, please contact the XIBEIKE customer service or the authorized reseller from whom you purchased the product. Provide your product model number (RP5-TY-101) and purchase details when seeking support.