

TY-SS-01/RP5-TY-002/RP5-TY-102

# Generic Canbus Box TY-SS-01/RP5-TY-002/RP5-TY-102 Installation and Operation Manual

For Toyota VENZA, Sienna, Avalon, and Prado Car Radio Android Systems

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of the Generic Canbus Box models TY-SS-01, RP5-TY-002, and RP5-TY-102. This device is designed to integrate with Android car radio systems in specific Toyota vehicle models, enabling communication between the vehicle's CAN-bus system and the aftermarket radio. Proper installation ensures functionality such as steering wheel control integration and display of vehicle information on the Android head unit.

## 2. SAFETY INFORMATION

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- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits and damage.
- Ensure all connections are secure and properly insulated to avoid electrical hazards.
- If you are unsure about any step of the installation process, consult a qualified professional.
- Do not modify the Canbus box or wiring harness. Unauthorized modifications can void the warranty and cause damage.
- Verify compatibility with your specific vehicle model and Android head unit before installation.

## 3. PACKAGE CONTENTS

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Verify that all components are present in your package:

- 1 x Canbus Box (Model: RP5-TY-102 or similar, depending on variant)
- 1 x Wiring Harness Power Cable



## For TOYOTA VENZA/SIENNA/AVALON

Image 1: Overview of the Canbus Box and included wiring harness. This image displays the main Canbus module connected to a multi-pin wiring harness, along with RCA cables and other connectors.

### 4. COMPATIBILITY

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This Canbus Box and wiring harness are compatible with the following Toyota vehicle models when installing an Android car radio:

- Toyota Sienna (2008 models)
- Toyota Avalon (2012 models)
- Toyota Prado (2002-2009 models)
- Toyota Venza (2011 models)

*Note: Vehicle year and model compatibility are crucial. Please verify your vehicle's specifications before proceeding with installation.*

### 5. SETUP AND INSTALLATION

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Follow these general steps for installing the Canbus Box and wiring harness. Specific steps may vary slightly depending on your vehicle's exact configuration and the Android head unit.

## 5.1 Preparation

1. **Disconnect Battery:** Turn off the vehicle and disconnect the negative terminal of the car battery.
2. **Remove Existing Radio:** Carefully remove the factory car radio from the dashboard. Refer to your vehicle's service manual for specific instructions on dashboard disassembly.

## 5.2 Connecting the Canbus Box

1. **Identify Connectors:** Locate the factory wiring harness connectors in your vehicle's dashboard.
2. **Connect Wiring Harness:** Connect the provided wiring harness power cable to the vehicle's factory harness. Ensure all connections are firm and correctly aligned.
3. **Connect Canbus Box:** Plug the Canbus Box (e.g., RP5-TY-102) into the designated connector on the wiring harness. This connection is typically a multi-pin white connector.
4. **Connect to Android Radio:** Connect the other end of the wiring harness to your Android car radio. This typically involves connecting the main power/speaker harness, RCA cables (for audio/video output), and specific Canbus data wires (if separate).



Image 2: Close-up view of the Canbus Box module, showing its model number RP5-TY-102 and a QR code. This module processes vehicle data for the Android head unit.

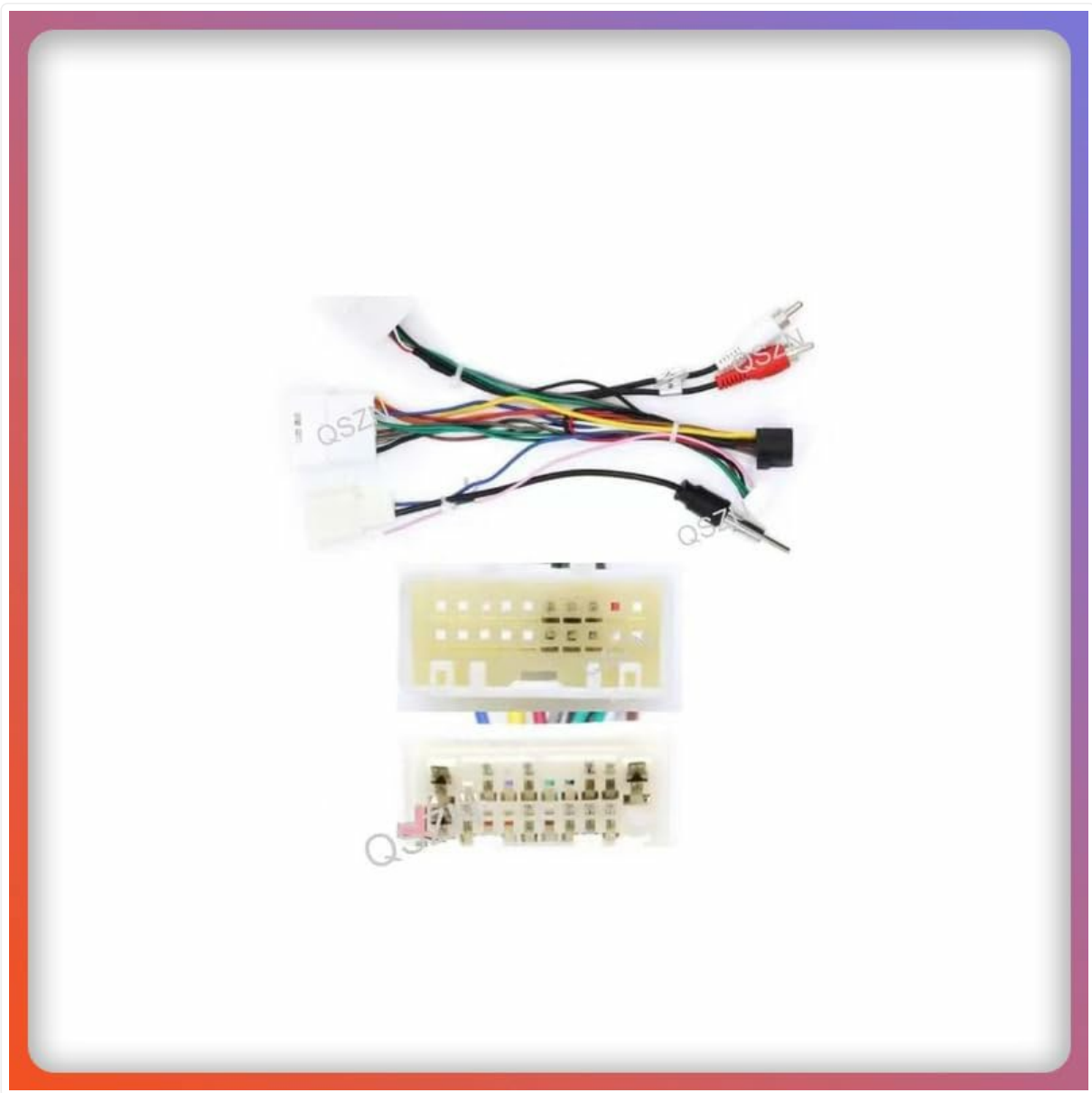


Image 3: Detailed view of the wiring harness connectors. This image shows various multi-pin connectors and RCA plugs, illustrating the different connections required for the Android car radio and vehicle system.

### 5.3 Testing and Reassembly

1. **Reconnect Battery:** Reconnect the negative terminal of the car battery.
2. **Test Functionality:** Turn on the vehicle and the Android radio. Test all functions, including:
  - Radio power on/off
  - Audio output
  - Steering wheel controls (volume, track skip, mode)
  - Vehicle information display (if supported by your Android radio and vehicle)
3. **Secure Components:** Once all functions are verified, carefully secure the Canbus box and excess wiring behind the dashboard.
4. **Reassemble Dashboard:** Reassemble the dashboard components in reverse order of removal.

## 6. OPERATING INSTRUCTIONS

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The Canbus Box operates automatically once correctly installed. Its primary function is to translate vehicle CAN-bus signals into a format that your Android car radio can understand, enabling seamless integration

of vehicle features.

- **Steering Wheel Controls:** After installation, your Android radio should recognize and respond to the vehicle's steering wheel controls (e.g., volume up/down, track next/previous, mode selection). Configuration may be required within your Android radio's settings.
- **Vehicle Data Display:** Depending on your Android radio's capabilities and vehicle model, the Canbus box may enable the display of vehicle information such as door status, climate control settings, or parking sensor data on the radio screen.
- **Ignition Power:** The Canbus box provides ignition-switched power to the Android radio, ensuring it turns on and off with the vehicle's ignition.

## 7. MAINTENANCE

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The Canbus Box is designed for maintenance-free operation. However, consider the following to ensure its longevity:

- **Secure Connections:** Periodically check that all wiring connections remain secure and free from corrosion.
- **Environmental Protection:** Ensure the Canbus box is installed in a dry location, away from excessive heat or moisture.
- **Software Updates:** If your Android radio receives software updates, verify that Canbus functionality is not affected. Some Android radios may require re-configuration of Canbus settings after major updates.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Android radio does not power on.	Loose power connection. Blown fuse in vehicle or radio. Incorrect wiring harness connection.	Check all power connections to the radio and Canbus box. Inspect vehicle and radio fuses. Verify wiring harness connections are correct according to the radio's manual.
Steering wheel controls do not work.	Canbus box not properly connected. Android radio Canbus settings incorrect. Incompatible Android radio firmware.	Ensure the Canbus box is securely plugged into the harness. Access your Android radio's settings and configure the Canbus type (usually found under "Factory Settings" or "Car Settings"). Select the correct Canbus model (e.g., RP5-TY-102). Consult your Android radio manufacturer for firmware updates or compatibility information.

Problem	Possible Cause	Solution
No vehicle information displayed.	Feature not supported by vehicle or radio. Canbus data not being read correctly.	Verify if your specific vehicle model and Android radio support this feature. Check Canbus connections and settings as described for steering wheel controls.

If problems persist after attempting these solutions, contact the seller or a professional installer for assistance.

## 9. SPECIFICATIONS

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Feature	Specification
Product Type	Canbus Box with Wiring Harness
Canbus Box Model	RP5-TY-102 (or TY-SS-01, RP5-TY-002 depending on variant)
Voltage	12V
Material	ABS Plastic
Color	Black (Canbus Box)
Manufacturer	HUNTAN

## 10. WARRANTY AND SUPPORT

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Specific warranty details for this product are not provided in the available information. For warranty claims, technical support, or further assistance, please contact the seller or the manufacturer directly. Retain your proof of purchase for any warranty-related inquiries.