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› [JOYING](#) /

› [Joying Radio Power Cable Adapter and Canbus Decoder for Toyota Vehicles \(TU-CAN-N\) - Installation and Operation Manual](#)

JOYING TU-CAN-N

Joying Radio Power Cable Adapter and Canbus Decoder for Toyota Vehicles

Model: TU-CAN-N | Brand: JOYING

1. INTRODUCTION

This manual provides comprehensive instructions for the installation and operation of the Joying Radio Power Cable Adapter and Canbus Decoder, model TU-CAN-N. This product is designed to integrate a Joying car radio with specific Toyota vehicle models, enabling features such as steering wheel controls (SWC), air conditioning display, and reverse camera functionality.

Important Note: This product is exclusively compatible with Joying car radios. Ensure your head unit is a Joying brand radio before proceeding with installation.

**If your factory stereo back is as shown
then it fits your car**



Image 2: Example of a compatible factory stereo back panel.

If you are uncertain about compatibility, please contact Joying support with your car model, year, and a picture of your car's dashboard for confirmation.

3. PACKAGE CONTENTS

Upon opening the package, ensure all the following components are present:

- 1x Joying Car Radio Wiring Harness (Toyota JBL Harness Adapter)
- 1x Canbus Decoder

4. SETUP AND INSTALLATION

This section outlines the steps for connecting the wiring harness and Canbus decoder to your Joying car radio and Toyota vehicle. Professional installation is recommended if you are unfamiliar with car audio wiring.

4.1 Wiring Diagram Overview

Refer to the diagram below for a visual representation of the harness connections. This harness includes connections for

Joying Toyota Canbus Harness Support Factory 360 Camera

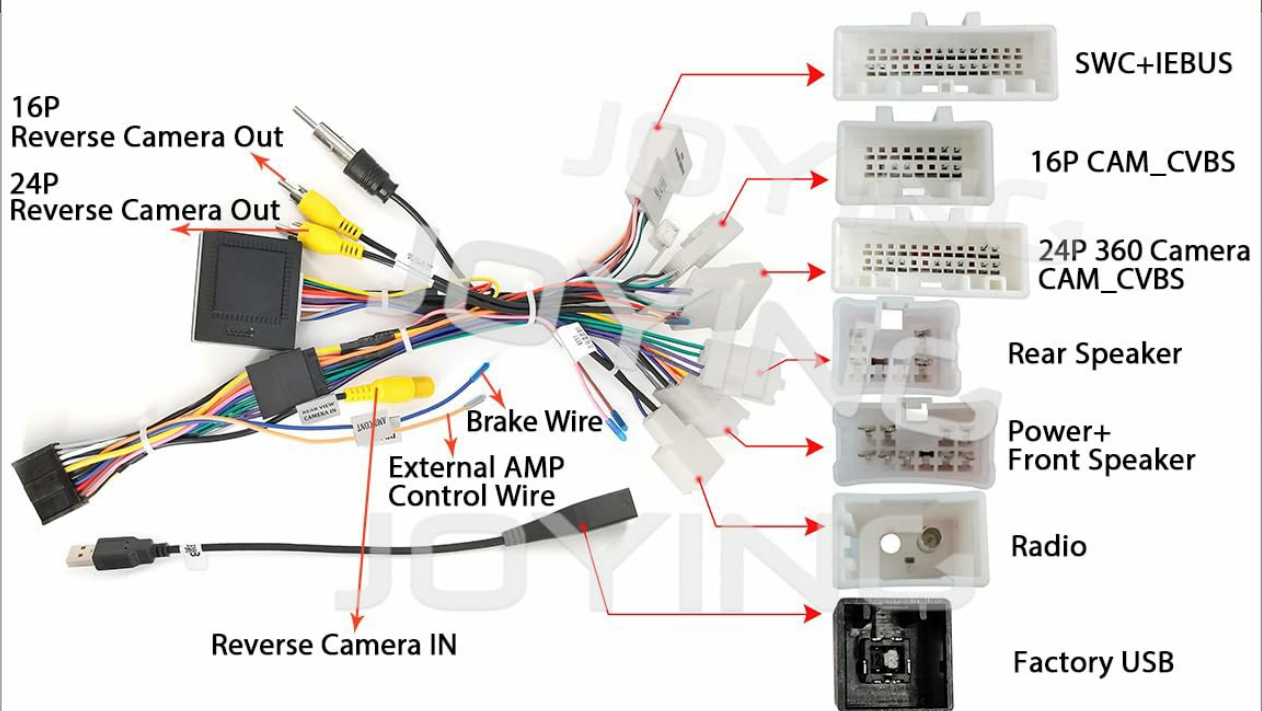
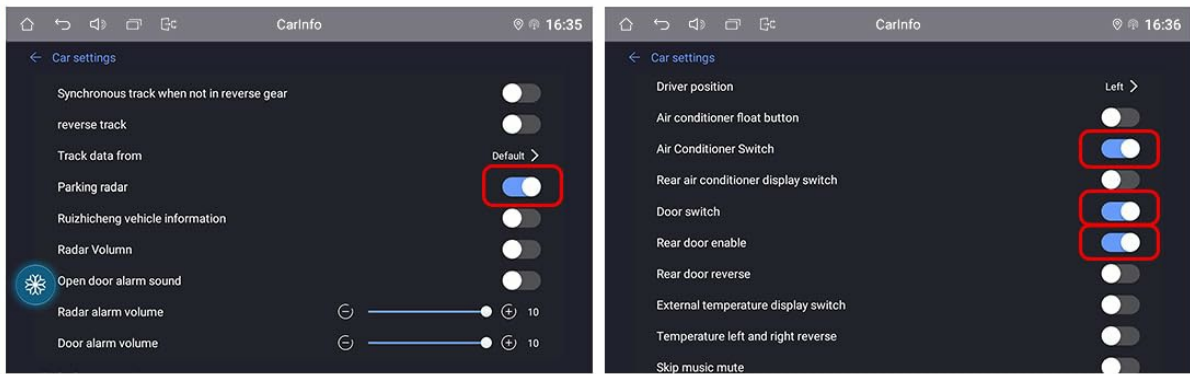


Image 3: Joying Toyota Canbus Harness wiring diagram.

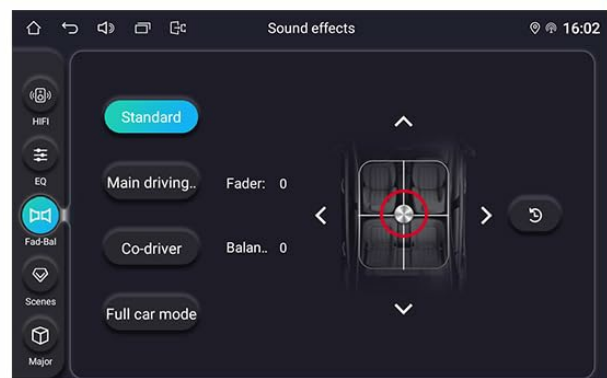
4.2 Key Connections and Features

- **Plug and Play:** The harness is designed for direct connection to your Joying car radio's 20-pin power socket and your vehicle's factory wiring.
- **Canbus Decoder:** The included Canbus decoder facilitates communication between the Joying radio and your vehicle's systems, enabling features like Steering Wheel Control, Air Conditioning Display, and Parking Sensor Display.
- **Factory USB Support:** The harness includes provisions for retaining your vehicle's factory USB port.
- **Factory Amplifier Support:** The harness supports integration with your vehicle's factory amplifier.
- **Factory 360 Camera Support:** Connections are provided for vehicles equipped with a factory 360-degree camera system.

* Turn on below option in setting-factory setting(8888)-original car set.



* Go to Sound effects app - Fad-Bal to set the sound field to the center part.
(Note: You cannot adjust front and rear speaker fade)



* If the volume is too high with noise, please adjust every speaker volume output value to 6.

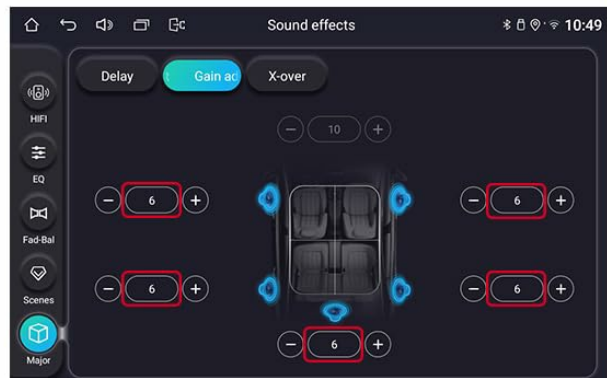


Image 4: Supported features and initial CAN wire connection.

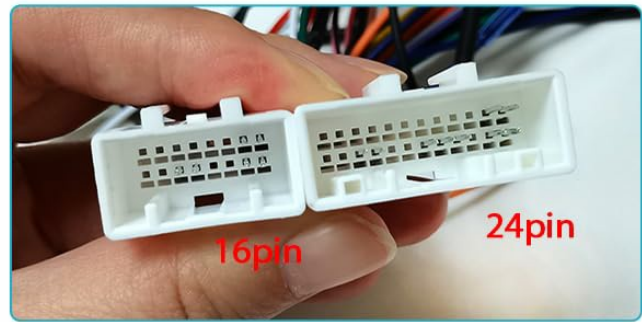
As shown in Image 4, ensure the **CAN IN + CAN OUT** wires are connected together at the back of your Joying head unit. After physical installation, navigate to the head unit's settings to select the correct Toyota model option. If you need assistance with this step, contact Joying support with your car's brand, production year, and a picture of your dashboard.

4.3 Reverse Camera Connection

The harness supports your factory reverse camera. Identify whether your vehicle uses a 24-pin or 16-pin connector for the reverse camera.

Support Factory Reverse Camera

Please check which plug you use?
24 pin or 16 pin?



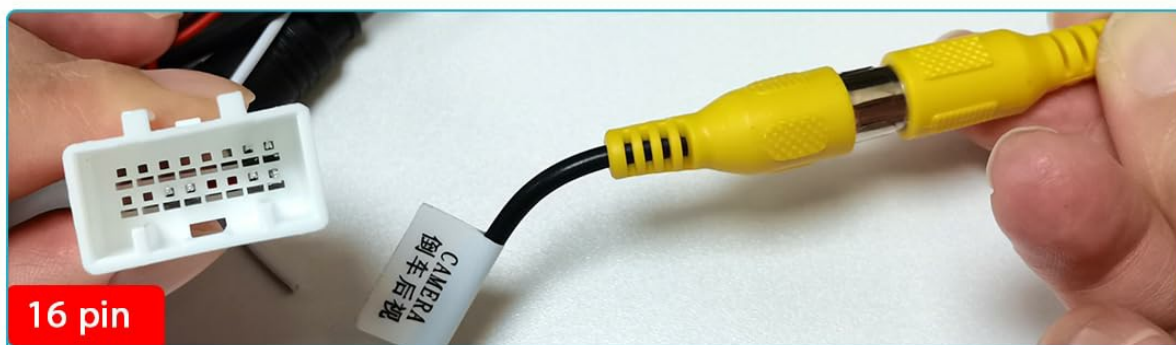
If you use 24 pin plug, please connect the related reverse camera input as below:



Image 5: Identifying and connecting the 24-pin reverse camera plug.

If your vehicle uses a 24-pin plug, connect it to the corresponding reverse camera input on the harness as shown in Image 5.

If you use 16 pin plug, please connect the related reverse camera input as below:



Please go to display - reverse camera to set "Reversing camera system" to "CVBS-N" option.

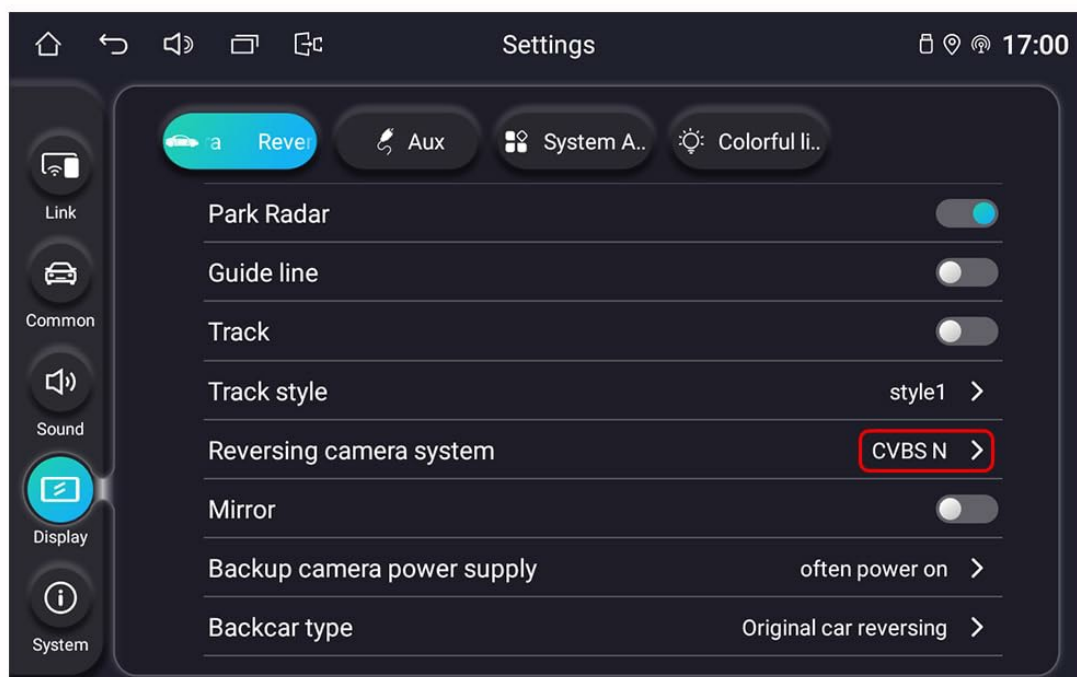


Image 6: Connecting the 16-pin reverse camera plug and configuring head unit settings.

If your vehicle uses a 16-pin plug, connect it as shown in Image 6. After connecting, access your Joying head unit's display settings and set the "Reversing camera system" option to "CVBS-N".

5. OPERATING INSTRUCTIONS AND SETTINGS

After successful installation, configure your Joying head unit to fully utilize the harness features.

5.1 Factory Settings Configuration

Access the factory settings (usually by entering a specific code like "8888") on your Joying head unit. Navigate to the "original car set" menu. Here, you can enable or disable various vehicle-specific functions.

- Support Factory USB ✓**
- Support Factory Amplifier ✓**
- Support Factory 360 Camera ✓**
- Support Air Conditioning Display ✓**
- Support Factory Parking Sensor Display ✓**
- Support Factory Steering Wheel Control ✓**

* Connect CAN IN + CAN OUT wire together in the back of JOYING head unit.



* Please kindly contact us and send us your car brand, produce year and car dash picture, we will tell you which car model option to choose here.

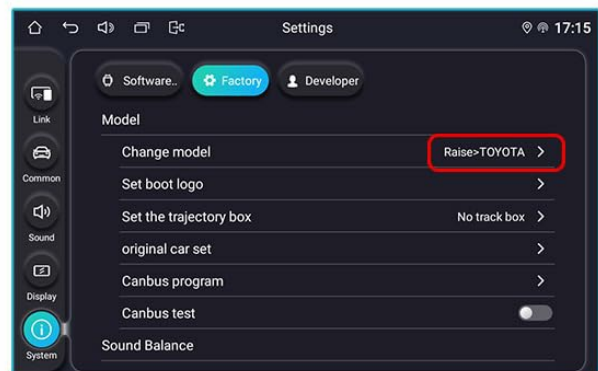


Image 7: Joying head unit factory settings and sound effects menu.

- **Air Conditioning Display:** Ensure the "Air conditioner display switch" is turned ON to show your vehicle's AC information on the head unit.
- **Door Status Display:** Enable "Door switch" and "Door open enable" to display door open/close status.
- **Steering Wheel Controls (SWC):** After selecting the correct Toyota model in the settings (as mentioned in Section 4.2), your SWC buttons should function. If not, refer to the troubleshooting section or contact support.

5.2 Sound Settings Adjustment

To optimize audio output, access the "Sound effects" app on your Joying head unit.

- **Fad-Bal:** Use the Fad-Bal (Fader-Balance) control to set the sound field to the center position for balanced audio. Note that you may not be able to adjust front and rear speaker fade independently if your system uses a factory amplifier.
- **Speaker Volume Output:** If you experience excessive noise or distortion at high volumes, adjust each speaker's individual output value. It is recommended to set these values to '6' as a starting point for troubleshooting noise issues.

6. MAINTENANCE

The Joying Radio Power Cable Adapter and Canbus Decoder is designed for long-term reliability and requires minimal maintenance. Ensure all connections remain secure and free from corrosion. Avoid exposing the harness to excessive moisture or extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues during or after installation, consider the following troubleshooting steps:

- **No Sound:**
 - Verify all wiring connections are secure.
 - Ensure the correct Toyota model is selected in your Joying head unit's factory settings.
 - Check the sound settings (Fad-Bal, speaker output levels) as described in Section 5.2.
 - If your vehicle has a factory amplifier, ensure it is properly powered and recognized by the head unit via the Canbus decoder.
- **Steering Wheel Controls Not Working:**
 - Confirm the correct Toyota model is selected in the head unit's factory settings.
 - Ensure the Canbus decoder is correctly connected and functioning.
 - Some Joying head units may require specific SWC learning procedures; consult your head unit's manual.
- **Reverse Camera Not Displaying:**
 - Check the physical connection of the 16-pin or 24-pin reverse camera plug (refer to Section 4.3).
 - Verify that "Reversing camera system" is set to "CVBS-N" in the head unit's display settings.
 - Ensure the reverse camera itself is functional.
- **Air Conditioning Display Not Showing:**
 - Ensure "Air conditioner display switch" is enabled in the head unit's factory settings (Section 5.1).
 - Confirm the Canbus decoder is properly connected and communicating.
- **Damaged or Missing Pins:** Inspect the harness upon delivery for any physical damage or pulled-out pins. Contact customer support immediately if issues are found.

For further assistance, please contact Joying customer support.

8. SPECIFICATIONS

Brand	JOYING
Model Number	TU-CAN-N
Connector Type	20-pin Power Socket
Material	Plastic, Polyvinyl Chloride (PVC)
Item Weight	6.4 ounces (approx. 181 grams)
Package Dimensions	6.14 x 4.41 x 2.05 inches
Manufacturer	Joying

First Available Date	July 31, 2023
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9. WARRANTY INFORMATION

Specific warranty details for this product are not provided in the available information. Please refer to the retailer's return policy or contact Joying customer support for warranty inquiries.

10. CUSTOMER SUPPORT

For technical assistance, compatibility questions, or any other inquiries regarding your Joying Radio Power Cable Adapter and Canbus Decoder, please contact Joying customer support:

Email: amjoying@gmail.com

Online Store: [Visit the JOYING Store on Amazon](#)

When contacting support, please provide your product model (TU-CAN-N), vehicle make, model, and year, and a detailed description of the issue, including any relevant photos or screenshots.