

PUZU PZ-C7

PUZU PZ-C7 Car DSP Amplifier Instruction Manual

Model: PZ-C7 | Brand: PUZU

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PUZU PZ-C7 Car DSP Amplifier. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage.

The PUZU PZ-C7 is a 4-channel to 6-channel digital signal processor with a built-in 4-channel amplifier, designed to enhance your car audio experience. It features advanced tuning capabilities and is compatible with various Toyota models (2018-2025 Corolla, Camry, Sienna, RAV4, Avalon) via a plug-and-play harness for basic audio systems without a factory amplifier.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product and vehicle:

- Ensure the vehicle's power is disconnected before installation.
- Do not attempt to open or modify the unit. Refer all servicing to qualified personnel.
- Avoid exposing the unit to moisture, extreme temperatures, or direct sunlight.
- Securely mount the unit to prevent movement during vehicle operation.
- Verify all connections are correct before restoring power to the vehicle. Incorrect wiring can cause damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- PUZU PZ-C7 DSP Amplifier Unit
- #58 Harness Cable (for specific Toyota models)

- USB PC Tuning Data Cable
- Instruction Manual (this document)



Image: What's in the box? The image displays the PZ-C7 unit, a #58 harness cable, an instruction manual, and a USB PC tuning data cable.

4. PRODUCT OVERVIEW

4.1 Key Features

- Integrated 4-channel amplifier within a 4-channel to 6-channel DSP.
- Fully adjustable 15-band equalizer with floating-point high-precision tuning control for all six output channels.
- Peak Power: 4 x 150 W; RMS Power: 4 x 50 W; Impedance: 4 ohm.
- 6 channels with RCA output.
- Signal-to-noise ratio > 108 dB; Frequency response: 20 Hz-20 KHz; T.H.D < 0.01%.
- Operating voltage: DC 12 V.
- Supports PC-side EQ tuning software and EQ tuning apps for Android and iOS.
- Compatible with 2018-2025 Toyota Corolla, Camry, Sienna, RAV4, and Avalon basic audio systems (without factory amplifier) using a 38-pin plug-and-play cable.
- Features high-pass and low-pass filters, variable sound field, spatial editing, gain/phase control, harmonic function, and limiter function.
- Includes 6 storage modes and subwoofer support.
- USB port for high-resolution music playback.

4.2 Unit Dimensions



Image: The PZ-C7 unit with dimensions indicated: 170mm length, 130mm width, and 33mm height.

4.3 Connection Ports



Image: Top view of the DSP amplifier. Ports include IR, FL OUT, FR OUT, RL OUT, RR OUT, and USB PLAYER.

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#58



オスプラグは車載ラジオに接続する



マザープラグ接続ステレオプラグ

Image: Bottom view of the DSP amplifier. Ports include SUB-L, SUB-R, USB, MODE/BYPASS switch, and the main HOST/ACC wiring harness connector.

5. INSTALLATION AND SETUP

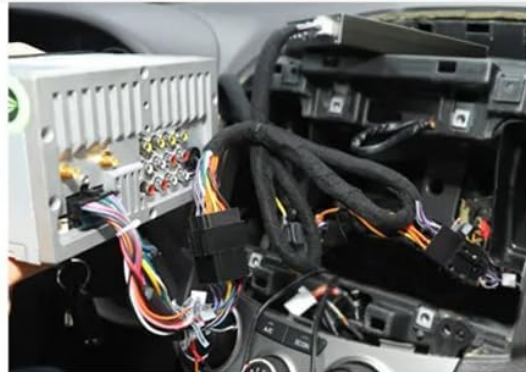
The PZ-C7 is designed for quick installation, typically within 15 minutes, using 4 simple steps. This unit is compatible with basic audio systems in 2018-2025 Toyota Corolla, Camry, Sienna, RAV4, and Avalon models that do not have a factory amplifier. If your vehicle has a factory amplifier, it must be removed, and proper installation skills and cable connections are required.

5.1 Harness Connection Diagram

わずか15分で、簡単な4ステップでPZ-C7のインストールを迅速に完了できます。



1. 装飾パネルを取り外し、出荷CDプレーヤーを取り出し、電源ケーブルを抜く。



2. アダプタハーネスの一端をDSPに接続し、他端を出荷時の車載ラジオプラグと車載ステレオ電源コネクタに接続する。



3. DSPをグローブボックスに入れます。



4. インストールが完了し、PCまたはAndroidアプリケーションで音声チューニングを行います。

Image: Harness connection diagram. The male plug connects to the car radio/DVD, and the female plug connects to the vehicle-side audio harness. The system uses the same power as the car radio.

5.2 Step-by-Step Installation

- 1. Remove Trim Panel and Disconnect Power:** Carefully remove the car's trim panel, take out the factory CD player or head unit, and disconnect its power cable.
- 2. Connect Adapter Harness:** Connect one end of the adapter harness to the DSP unit. Connect the other end of the harness to the factory car radio plug and the car stereo power connector.
- 3. Position the DSP:** Place the DSP unit in a suitable location, such as the glove box, ensuring it is secure and cables are not pinched.
- 4. Perform Audio Tuning:** After installation is complete, perform audio tuning using the dedicated PC

software or the Android/iOS application.



Image: Visual guide for the 4-step installation process. Shows removing panels, connecting harnesses, placing the DSP, and tuning with software.

6. OPERATION AND TUNING

The PUZU PZ-C7 DSP amplifier offers comprehensive audio tuning capabilities via dedicated software and mobile applications.

6.1 Tuning Software and Apps

You can fine-tune your audio settings using:

- **PC-side EQ Tuning Software:** Connect the DSP to your computer using the provided USB PC Tuning Data Cable.
- **Android EQ Tuning App:** Download the compatible app for your Android device.
- **iOS EQ Tone-up App:** Download the 'PZ-C7' app from the App Store for your iOS device.



Image: Displays the PC-side EQ tuning software interface on a laptop, along with the iOS and Android EQ tuning apps on mobile devices.

6.2 Advanced Audio Features

The tuning interface allows you to control various aspects of your audio:

- **15-Band EQ:** Adjust frequencies for precise sound shaping.
- **Filters:** Utilize high-pass and low-pass filters to manage frequency ranges for speakers and subwoofers.
- **Time Delay:** Adjust the timing of sound from each speaker to create an optimal listening position, often referred to as the 'Emperor's Position', for a surround stereo effect.
- **Gain/Phase Control:** Fine-tune the output level and phase for each channel.
- **Sound Field & Spatial Editing:** Customize the soundstage and spatial characteristics.
- **Storage Modes:** Save up to 6 different audio profiles for various music genres or listening preferences.



Image: Illustration of the time delay function, showing how it creates an optimal sound position (Emperor's Position) and surround stereo effect within the car cabin. This feature is accessible via PC and Android apps.

7. SPECIFICATIONS

Feature	Specification
Brand	PUZU
Model Number	PZ-C7
Product Dimensions (L x W x H)	17 x 13 x 3.3 cm
Peak Power	4 x 150 W

Feature	Specification
RMS Power	4 x 50 W
Impedance	4 ohm
Channels	6 (with RCA output)
Signal-to-Noise Ratio	> 108 dB
Frequency Response	20 Hz - 20 KHz
Total Harmonic Distortion (T.H.D)	< 0.01%
Operating Voltage	DC 12 V
Connectivity Technology	Bluetooth, USB
Compatible Devices	Smartphone, PC
Control Method	Software/App Control
Included Accessories	PZ-C7 amplifier, #58 harness cable, USB PC tuning data cable

8. TROUBLESHOOTING

If you encounter issues, consider the following common troubleshooting steps:

- **No Power:** Check all power connections, including the vehicle's fuse box. Ensure the harness is correctly seated.
- **No Sound:** Verify all audio input and output connections. Check the DSP's settings via the tuning software/app to ensure channels are enabled and gain levels are appropriate. Confirm the car radio is functioning correctly.
- **Distorted Sound:** Check speaker wiring for shorts or incorrect polarity. Reduce gain settings if the sound is clipping. Ensure the source audio is of good quality.
- **App/Software Connection Issues:** Ensure the USB cable is securely connected to both the DSP and the PC. For mobile apps, ensure Bluetooth is enabled and the device is paired, or the USB connection is stable.
- **Compatibility:** Reconfirm that your vehicle's audio system is compatible (i.e., no factory amplifier) as specified in the manual.

If problems persist after attempting these steps, please contact customer support.

9. MAINTENANCE

The PUZU PZ-C7 DSP amplifier requires minimal maintenance:

- Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Ensure adequate ventilation around the unit to prevent overheating.
- Periodically check all cable connections for tightness and wear.
- Avoid spilling liquids on the unit.

10. WARRANTY AND SUPPORT

For any issues encountered before purchasing or during use of the product, please feel free to contact PUZU customer support. We aim to respond to all inquiries within 24 hours.

Please retain your proof of purchase for warranty claims. Specific warranty terms and conditions may vary by region and retailer.
