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> [JOYING JY-TT158N4 Car Stereo Instruction Manual for Toyota Land Cruiser Prado 120 & Lexus GX470 \(2004-2009\)](#)

JOYING JY-TT158N4

JOYING JY-TT158N4 Car Stereo Instruction Manual

For Toyota Land Cruiser Prado 120 & Lexus GX470 (2004-2009)

1. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Improper installation or operation may cause damage to the device or vehicle, and may void the warranty. Always prioritize safe driving practices. Do not operate the device in a way that distracts you from the road.

- **Professional Installation Recommended:** Due to the complexity of car electrical systems, professional installation is highly recommended.
- **Power Supply:** Ensure the device is connected to a 12V DC power supply with negative grounding.
- **Wiring:** Double-check all wiring connections before powering on the unit to prevent short circuits or damage.
- **Operating Temperature:** Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.

2. PRODUCT OVERVIEW

The JOYING JY-TT158N4 is a 9-inch Android car stereo designed for Toyota Land Cruiser Prado 120 and Lexus GX470 models from 2004-2009. It features a high-resolution touchscreen, integrated CarPlay and Android Auto, a physical volume knob, and robust hardware for an enhanced in-car experience.



9" For Toyota Land Cruiser Prado(120) Lexus GX470 2004-2009

- ✓ Factory JBL Amplifier
- ✓ Factory Mark Levinson Amplifier
- ✓ Factory Pioneer Amplifier
- ✓ Factory Steering Wheel Control



Figure 2.1: Front view of the JOYING JY-TT158N4 car stereo.

Key Features:

- **Vehicle Compatibility:** Specifically designed for Toyota Land Cruiser Prado 120 & Lexus GX470 (2004-2009), compatible with JBL amplifier and factory steering wheel controls.
- **Fast Boot:** Quick startup, entering the user interface in approximately 2 seconds after the initial boot.
- **Audio Output:** Optical Fiber and Coaxial Digital Output for high-quality sound with external amplifiers.
- **Built-in 4G Module:** Supports SIM card for internet access (data only, no calls/SMS).
- **GPS Navigation:** Precise GPS with included antenna, supporting offline maps and synchronization with phone map data via CarPlay/Android Auto.
- **CarPlay & Android Auto:** Built-in support for seamless smartphone integration via USB or Bluetooth.
- **Personalized Settings:** Customizable car boot logos, wallpapers, and button colors.
- **Cooling System:** Dual heat sink design with automatic fan control to prevent overheating.

3. WHAT'S IN THE BOX

The package includes the following components:

- 9" radio unit (x1)
- Single Din Cage (x1)
- Left & Right Bracket (x1)
- WiFi Antenna (x1)
- GPS Antenna (x1)
- 4G Antenna (x2)
- External Mic (x1)
- USB Cable (x2)
- AR Cable (x1)
- Screen Ribbon Cable (x1)
- Power Cable (x1)
- User Manual (x1)

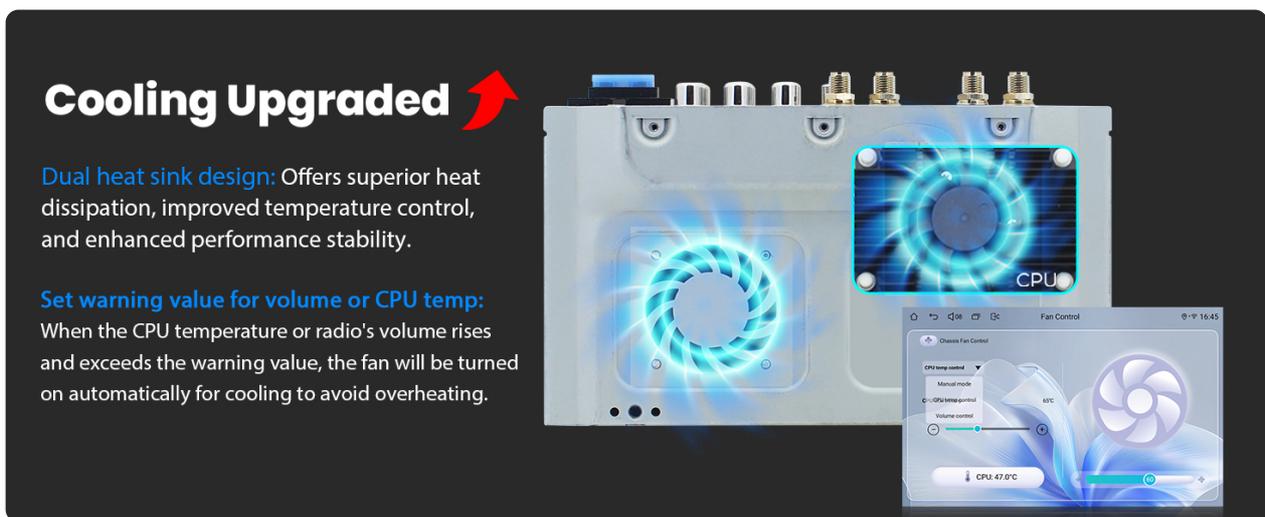


Figure 3.1: Visual representation of included components.

4. INSTALLATION

The JOYING JY-TT158N4 is designed for plug-and-play installation in compatible Toyota Land Cruiser Prado 120 and Lexus GX470 models (2004-2009). No cutting of factory cables is required. Ensure the vehicle's power is disconnected before beginning installation.

4.1. Vehicle Compatibility Check

Verify that your vehicle's dashboard matches the compatible models to ensure proper fitment.

For Lexus GX470 2003-2009 Toyota Land Cruiser Prado(120) 2004-2009



Figure 4.1: Comparison of compatible and incompatible dashboards.

4.2. Wiring Connections

Connect the provided cables to the corresponding ports on the car stereo and your vehicle's wiring harness. Ensure all connections are secure.



Figure 4.2: Rear view of the car stereo with various ports and connections.

4.3. AR Camera Connection

For connecting AR (Augmented Reality) front and reverse cameras, follow the specific wiring instructions. This typically involves connecting the camera's power cable and video input to the head unit.

Video 4.1: Detailed guide on connecting AR (Front and Reverse) cameras to the head unit.

5. INITIAL SETUP

5.1. First Boot

The first boot-up may take 30-40 seconds. Subsequent startups will be faster, typically within 2 seconds.

5.2. Bluetooth Pairing

To enable hands-free calling and audio streaming, pair your smartphone via Bluetooth. Navigate to the Bluetooth settings on the car stereo and your phone, then select 'Car BTO' or a similar device name to connect.

Video 5.1: Demonstration of Bluetooth pairing and CarPlay/Android Auto connection.

5.3. CarPlay & Android Auto Connection

Connect your mobile phone to the car radio via USB cable or Bluetooth to use CarPlay or Android Auto. This allows access to navigation, phone calls, and music on the larger screen.

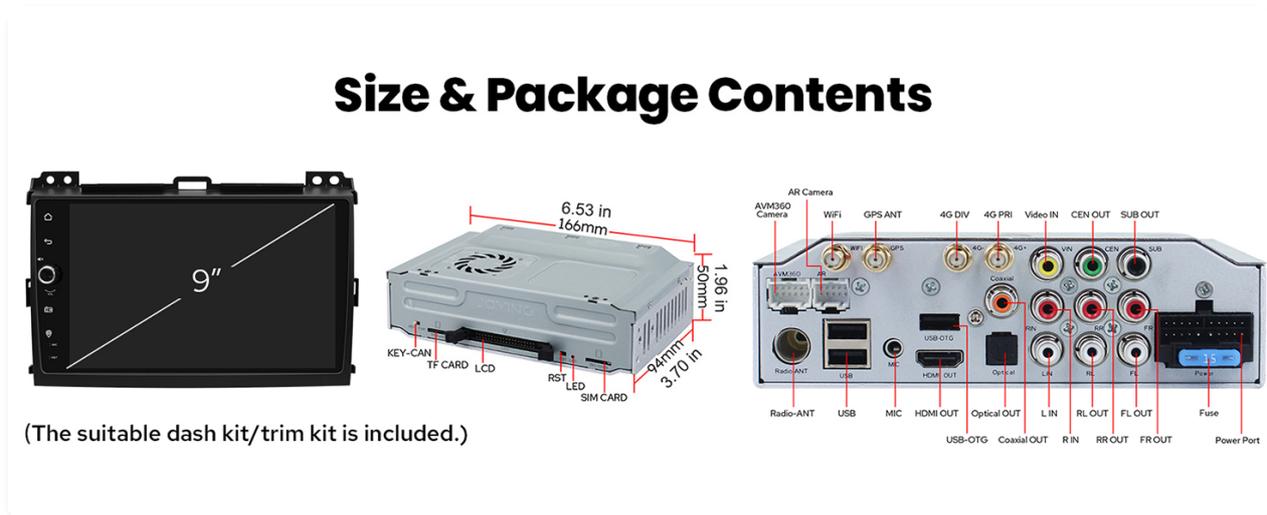


Figure 5.1: Display showing CarPlay and Android Auto interfaces.

6. OPERATING INSTRUCTIONS

6.1. User Interface Navigation

The system features an intuitive Android interface. Swipe left or right to access different home screens and applications. Tap icons to launch apps like Radio, Music, Video, Navigation, and Settings.



Figure 6.1: Car stereo displaying the main user interface with various application icons.

6.2. Audio and Equalizer Settings

Adjust audio settings and utilize the 48-band graphic equalizer (TDA7851 DSP chip) for optimal sound quality. Preset EQ modes are available, or you can customize your own.

High-quality Sound Enjoyment

TDA7851

DSP Chip

48-Band

Graphic Equalizer

4×50W

Max Output Power

Support Aftermarket Amplifier

4 *Audio Outputs
1* SUB Output

Fiber Optical
Output

SPDIF Coaxial
Output

Center Channel
Output

Figure 6.2: Illustration of high-quality sound features and equalizer interface.

6.3. Voice Control

Utilize voice commands to control various functions, enhancing driving intelligence and security. This allows for hands-free operation of features like radio, navigation, and calls.

Video 6.1: Demonstration of voice control features, including opening FM radio and hands-free calling.

6.4. Dual Screen Functionality

The system supports dual-screen operation, allowing two applications to run simultaneously. For example, you can have navigation on one side and music playback on the other.

Video 6.2: Shows dual screen functionality with FM radio and phone dialer running concurrently.

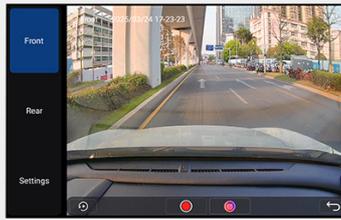
6.5. HDMI Output

The unit features an HDMI output, allowing you to send uncompressed audio and video signals to external displays, such as headrest monitors, for passenger entertainment.

Optional Accessories (NOT included in the package)



OBD2
(ASIN: B076CD78HT)
Connected via Bluetooth to retrieve real-time data and trouble codes from your vehicle computer.



AR Front Camera
(ASIN: B0CBX4N6V8)
Record the front road in the background automatically while driving.



AR Rear Camera
(ASIN: B0CBX39S8M)
Switch to the reverse display automatically when reversing the car.



Figure 7.1: Options for customizing UI elements like button colors and wallpapers.

7.2. Connectivity

The unit offers enhanced connectivity with upgraded WiFi signal via an independent antenna for stable and fast internet access, and a built-in 4G module for SIM card data.

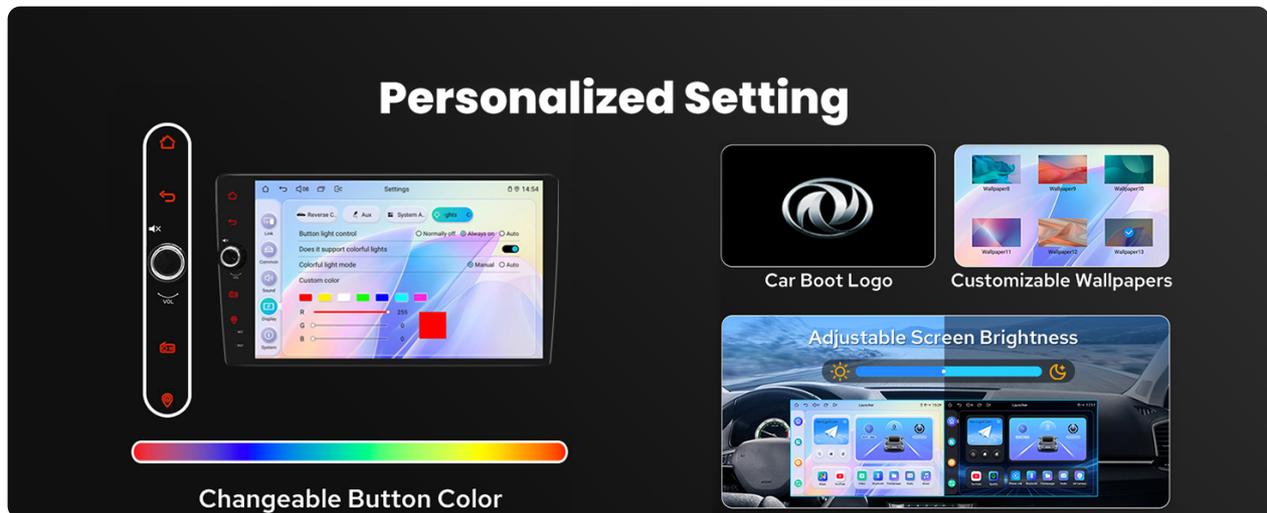


Figure 7.2: Illustration of the independent WiFi antenna for improved signal.

7.3. Cooling System

A dual heat sink design ensures superior heat dissipation and improved temperature control, enhancing performance stability. The fan automatically activates if the CPU temperature or radio volume exceeds a set warning value.

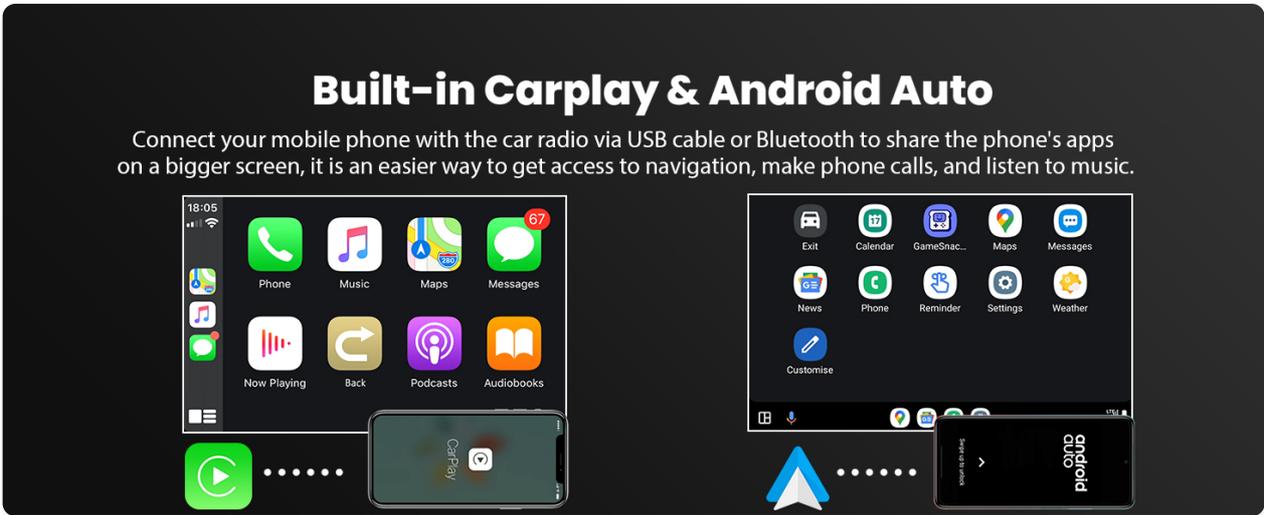


Figure 7.3: Diagram showing the dual heat sink design and fan control interface.

7.4. Optional Accessories

Enhance your experience with optional accessories such as OBD2 scanners, AR front cameras, and AR rear cameras (sold separately).

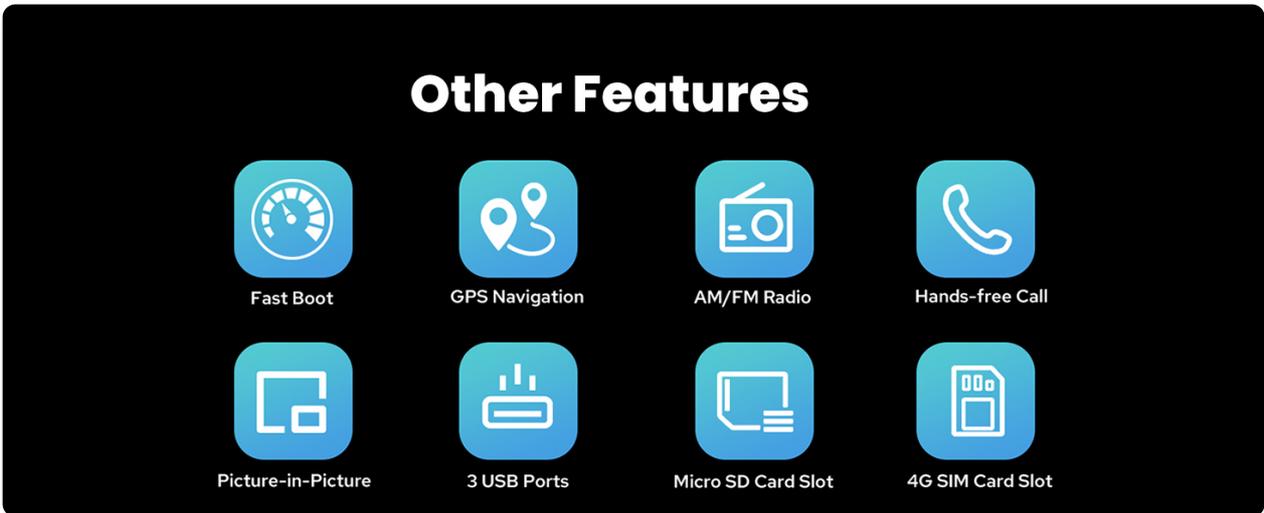


Figure 7.4: Overview of optional accessories for the car stereo.

8. SPECIFICATIONS

Feature	Detail
Item Model Number	JY-TT158N4
Display Size	9 Inches
Operating System	Android
Special Features	Bluetooth, Touchscreen, Built-in 4G Module, Optical Fiber and Coaxial Digital Output, Fast Boot, GPS Navigation, CarPlay, Android Auto

Feature	Detail
Connectivity Technology	Bluetooth, Ethernet, USB, Wi-Fi
Audio Output Mode	Stereo
Map Type	North America (Offline maps supported)
Item Weight	6 pounds
Package Dimensions	13 x 9 x 8 inches

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the screen and exterior. Avoid abrasive cleaners or solvents.
- **Software Updates:** Periodically check for software updates to ensure optimal performance and access to new features.
- **Temperature:** Do not expose the unit to extreme temperatures.

10. TROUBLESHOOTING

- **No Power:** Check all power connections and ensure the vehicle's ignition is on. Verify fuses.
- **No Sound:** Check speaker connections, volume levels, and audio settings (e.g., equalizer, balance). Ensure external amplifiers are powered on if used.
- **Bluetooth Connection Issues:** Ensure Bluetooth is enabled on both the stereo and your phone. Try unpairing and re-pairing the devices.
- **CarPlay/Android Auto Not Connecting:** Ensure your phone's operating system is up to date. Try a different USB cable. Verify USB debugging settings for Android Auto if connecting via USB.
- **GPS Signal Loss:** Ensure the GPS antenna is properly installed and has a clear view of the sky.

11. WARRANTY AND SUPPORT

This product comes with a **2-Year Warranty**. For technical support, troubleshooting assistance, or warranty claims, please contact JOYING customer service through your purchase platform or the official JOYING website.