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> [JOYING 9-Inch Android 12 Car Stereo Instruction Manual for Honda Civic \(2016-2021\), Model JY-HZ145N4](#)

## JOYING JY-HZ145N4

# JOYING 9-Inch Android 12 Car Stereo Instruction Manual

For Honda Civic (2016-2021) - Model: JY-HZ145N4

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your JOYING 9-inch Android 12 Car Stereo. Designed specifically for Honda Civic models from 2016 to 2021, this unit offers advanced features including wireless CarPlay, Android Auto, GPS navigation, and a high-resolution touchscreen display. Please read this manual thoroughly before use to ensure proper functionality and safety.



Image: The JOYING 9-inch Android 12 Car Stereo unit, showcasing its main interface with various application icons.

## SETUP AND INSTALLATION

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### Package Contents

Verify that all components are present in the package:

- JOYING 9-inch Car Stereo Head Unit
- Power Cable (may vary based on vehicle option)
- 4G Antenna (x2)
- USB Cable (x2)
- External Microphone (x1)
- GPS Antenna (x1)
- User Manual (this document)

## Size & Package Contents

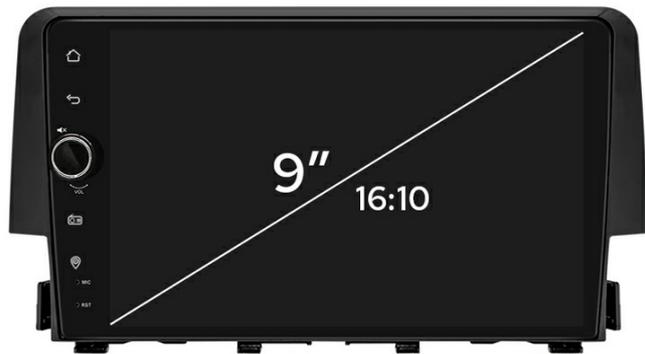


Image: A visual representation of the included accessories: wiring harness, 4G antennas, USB cables, external microphone, GPS antenna, and user manual.

## Wiring Diagram

Refer to the following diagram for proper wiring connections. Ensure all connections are secure before powering on the unit.

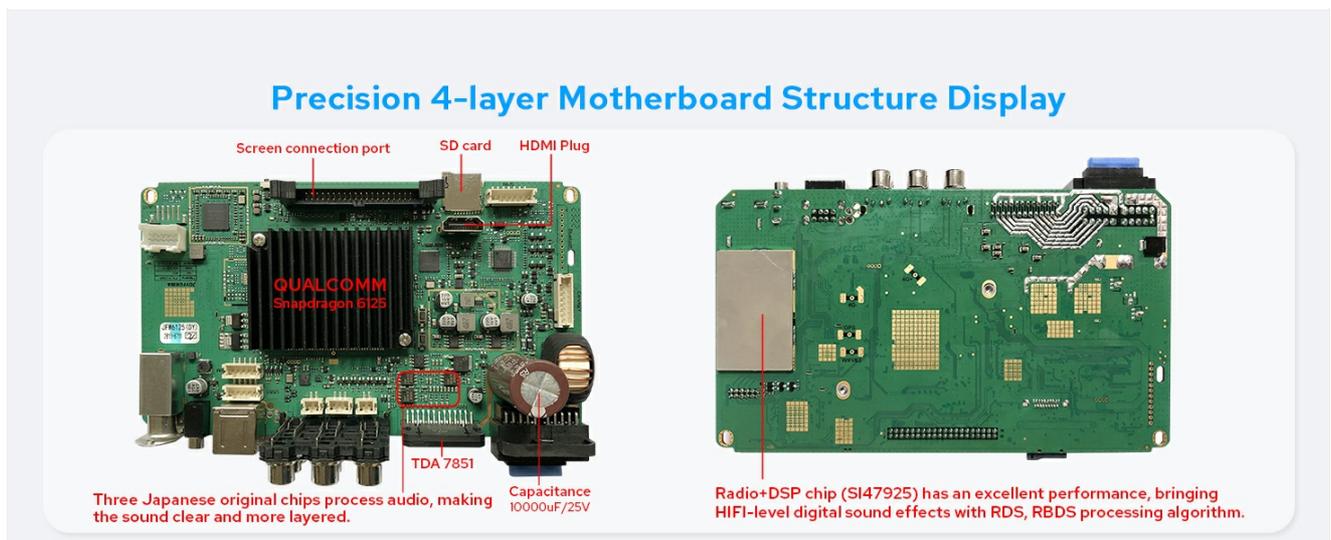


Image: The rear panel of the head unit with labeled ports for optical out, coaxial out, video in, sub out, USB, mic, radio antenna, GPS antenna, and other connections.

## Vehicle Compatibility and Purchase Guide

This unit is designed for Honda Civic models from 2016-2021. When purchasing, ensure you select the correct option for your vehicle's configuration. For vehicles **without a factory amplifier**, choose option 'A'.

Parameter	Screen Parameter	Network & Connection
<b>CPU</b> QCM6125 Octa Core 64bit ARM 4xA73@2.0GHz 4xA53@1.8GHz	<b>Screen Resolution</b> 1280×800P	<b>Positioning System</b> GPS / GLONASS / Beidou
<b>Manufacturing Technology</b> 11 nanometers	<b>Screen Density</b> 273 ppi	<b>WiFi-5</b> Up to 600 Mbps DL 802.11ac Wi-Fi X12 LTE modem
<b>GPU</b> Adreno™ 610@950 MHz	<b>Refresh Rate</b> 60 Hz	<b>Network</b> 4G/3G/Bluetooth OBD(5.0)
<b>Memory Type</b> LPDDR4X	<b>DPI</b> 160 dpi(mdpi)	
<b>RAM &amp; ROM</b> 8GB+128GB / 4GB+64GB		



Image: A visual guide indicating the factory radio and its rear connections for compatibility assessment.

## Initial Power-On

Upon inserting the car key, the unit will initiate a fast boot sequence, entering the user interface within 2 seconds. The very first boot-up may take approximately 30-40 seconds.

## OPERATING INSTRUCTIONS

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### User Interface Overview

The personalized user interface is optimized for car driving habits, featuring a clear layout for navigation, music, radio, and other applications. It supports split-screen functionality and quick access to settings.

# Deep-optimized UI

The new personalized user interface is specially customized according to the Qualcomm Snapdragon chip which is more in line with the usage habits of car driving.



Image: An overview of the car stereo's user interface, highlighting features like HDMI display, current app launcher, split-screen function, and various control buttons.

## CarPlay and Android Auto

The unit features built-in wireless CarPlay and Android Auto modules, allowing seamless integration with your smartphone. Connect your phone via USB cable or Bluetooth to access navigation, make calls, and stream music directly on the car stereo's display.

## Purchase Guide

Please check below and choose the suitable option for your car when purchasing.  
If you are not sure which option to choose, please send us your car brand, year, and dash picture, we will check for you.

For this car dashboard, pls choose  
**"A: without factory amplifier"** when purchasing.



Image: The car stereo displaying both Apple CarPlay and Android Auto interfaces, demonstrating smartphone connectivity.

## GPS Navigation

Equipped with precise GPS engines and an included GPS antenna, the unit ensures accurate and fast real-time navigation. Google Maps is preinstalled for online navigation. Offline maps can be downloaded and used in areas with limited connectivity. Smartphone map data can also be synchronized via CarPlay/Android Auto.

# HDMI Output

HDMI is a full digital image and sound-sending interface that can send uncompressed audio and video signals, audio and video can be output synchronously, no need to adjust manually.

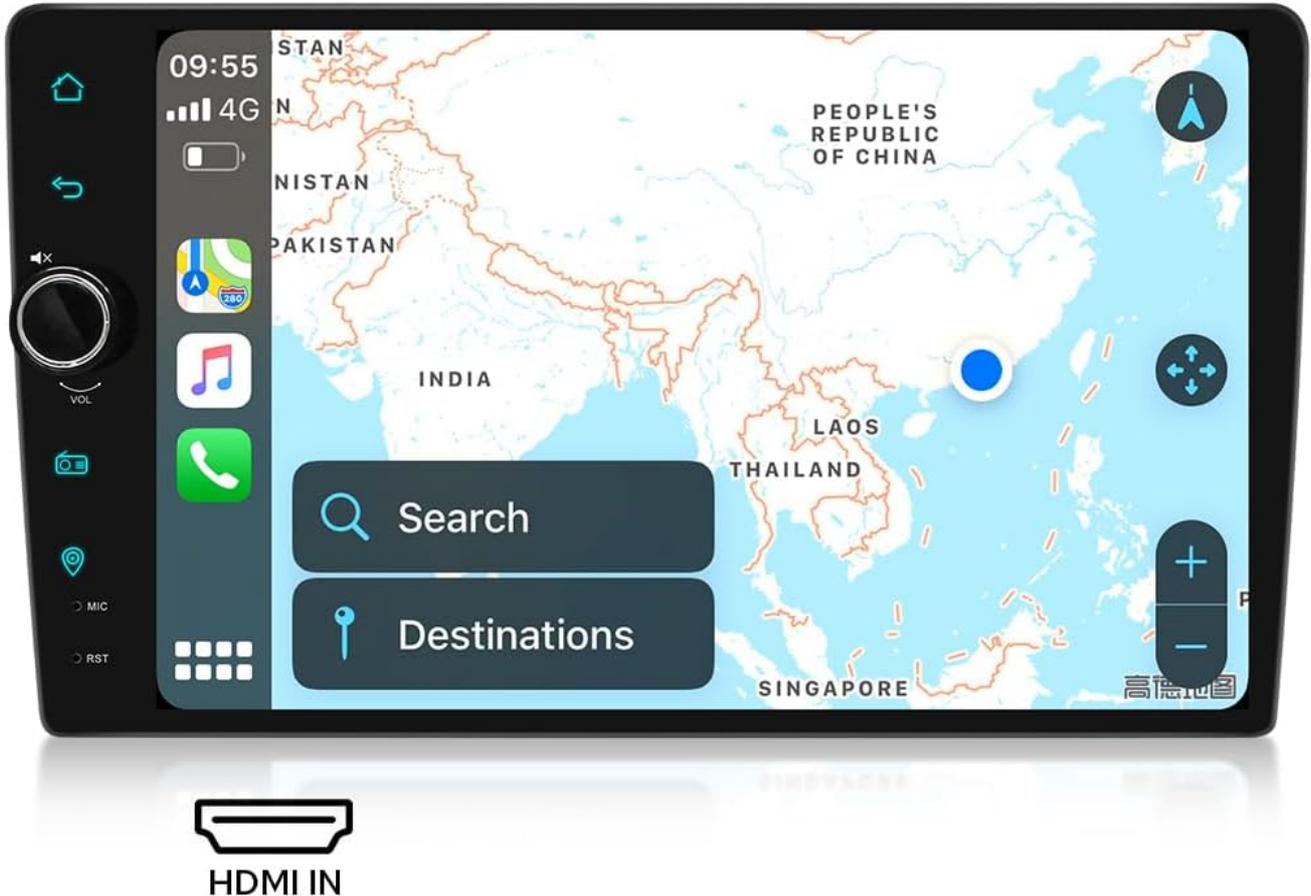


Image: The car stereo displaying a map with search and destination options, indicating active GPS navigation.

## Bluetooth 5.0

Bluetooth 5.0 supports audio streaming, automatic phone book transfer, and hands-free calling. Note that it primarily supports phone and OBD dongle connections.

## Built-in 4G Module

Insert a SIM card into the built-in 4G module for direct internet access. This module utilizes Qualcomm's baseband for faster internet speed, stable network connection, and wider signal range. It supports FDD-LTE (B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B38/B66/B71) and TDD-LTE (B41). Please note that it does not support making phone calls or sending SMS messages directly from the SIM card.

Before



After



Image: An illustration demonstrating the 4G module and how to insert a Micro SIM (TF) card for internet access.

### Audio Features: DSP and Digital Output

The unit includes a built-in 48-band EQ Digital Sound Processor (DSP) with 20 preset sound effects. This allows for precise adjustment of ultra-bass, bass, mid-sound, mid-treble, treble, and super-treble. The DSP module performs high-precision digital processing of audio signals for various effects like reverberation, delay, and distortion filtering. For external amplifiers with Optical Fiber or Coaxial Digital Input, the unit provides direct digital output for ultimate sound quality.

### Car-smartphone Connectivity Wireless CarPlay & Android Auto

Connect your mobile phone with the car radio via USB cable or Bluetooth to share the phone's apps on a bigger screen, it is an easier way to get access to navigation, make phone calls, and listen to music.

(Built-in Android Auto and CarPlay module, no need for any extra device or dongle)



Image: Screenshots of the DSP interface, showing EQ settings and DTS scenes for sound customization.

### AR Camera

During driving, you can freely switch the front camera and rear camera to observe the safe driving environment.



front camera



rear camera



**Note:** It is better to purchase JOYING's AR camera which is optimized to be more compatible with our radio, display clearer and more stable images when recording.

Image: A visual representation of the high-precision sound processing, including delay and crossover adjustments for optimal audio output.

## Display Features: Day/Night Mode, Gesture Control, HDMI Output

The unit features an ultra-thin full-fit screen with narrow bezels, offering higher brightness and clearer display. It supports Day & Night Mode for optimal visibility in varying light conditions. New Gesture Control allows screen interaction via two-finger slides (up, down, left, right), enhancing safety while driving. An HDMI output port allows synchronous transmission of uncompressed audio and video signals to external displays, such as rear-seat monitors. Note that due to chassis design, a straight-head HDMI cable is not supported; an L-shaped adapter may be required.

### Day & Night Mode

The daytime mode is bright enough to see clearly even in the sun, the night mode will not be dazzling, making your eyes more comfortable.



 **Daytime Mode**  **Night Mode**

### Colorful Lights Setting

Choose the button illumination color to match your dashboard.



### New Gesture Control

Control the screen via gesture learning by 2 fingers: "slide up", "slide down", "slide left", and "slide right". Very friendly to those who are driving.



Image: Demonstrations of Day & Night Mode, customizable colorful button illumination, and new gesture controls for screen interaction.

# Ultra-thin Full-fit Screen

The fully fit screen with ultra-thin and narrow bezels brings a higher brightness and clearer display effect.



**HD 1280×800**  
Screen Resolution

**60Hz** Refresh Rate

**16:10** Aspect Ratio

The full-fit screen technology eliminates the gap in the screen and greatly weakens the mirror reflection light, which makes the screen clearer and transparent. It looks like a piece of obsidian when the screen is off.



## Wide view angle

Looking at the screen from four directions, if the color of the display has almost no change, that is the wide view angle.

Image: Details of the screen's specifications including HD 1280x800 resolution, 60Hz refresh rate, and 16:10 aspect ratio, emphasizing wide viewing angles.



### Projection Screen Display:

Support to play movies for passengers in the headrest, and navigate for drivers on the main screen. Everyone can enjoy it.



### On-screen Display:

Displays the same 1080P clear picture, zero delays without stuttering.



**Due to the space design inside the chassis, the HDMI cable with a straight head is not supported. (HDMI cable is not included)**

Image: Examples of HDMI output for projection screen display and on-screen display, showing content mirrored to rear monitors.

## AR Camera Support

During driving, you can freely switch between front and rear camera views to observe the surrounding environment. For optimal performance, it is recommended to use JOYING's AR camera, which is optimized for compatibility and provides clearer, more stable images when recording.

## WIFI & 4G MODULE

Using Qualcomm's own baseband, the internet speed is faster, the network connection is more stable, and the signal range is wider.



Image: Screenshots demonstrating the AR camera's front and rear view capabilities, aiding in safe driving.

## MAINTENANCE

To ensure the longevity and optimal performance of your JOYING car stereo, follow these maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- **General Cleaning:** Keep the unit and surrounding dashboard area free from dust and debris. Use a soft brush or compressed air for hard-to-reach areas.
- **Software Updates:** Periodically check the JOYING official website or contact support for available software updates to ensure the system runs efficiently and has the latest features.
- **Avoid Extreme Temperatures:** While designed for automotive use, prolonged exposure to extreme heat or cold can affect performance.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your JOYING car stereo.

- **No Power:**
  - Check all power connections and fuses. Ensure the car's ignition is on.
  - If the unit does not power on after initial installation, re-verify wiring against the diagram.
- **No Sound or Poor Sound Quality:**
  - Verify speaker connections. Ensure they are correctly wired and not short-circuited.
  - Access the built-in DSP settings (EQ, balance, fader) and adjust them to your preference. Initial settings may not be optimized for your vehicle's speakers.
  - If using external amplifiers, check their power and connections.
- **CarPlay/Android Auto Connection Issues:**
  - Ensure your phone's Bluetooth and Wi-Fi are enabled.
  - For wireless connections, ensure the unit's Wi-Fi is active.
  - If experiencing slow connection (e.g., 10-15 seconds), this is normal for some wireless setups. Allow time for the connection to establish.
  - If using a USB cable, ensure it is a high-quality data cable and securely connected to both the phone and the unit.
  - **Important:** Do not connect to Bluetooth directly from your phone while using CarPlay/Android Auto, as this can cause conflicts. The system manages Bluetooth connectivity automatically when CarPlay/Android Auto is active.
- **GPS Signal Loss or Inaccuracy:**

- Ensure the GPS antenna is properly installed and has a clear line of sight to the sky (e.g., on the dashboard).
- Check the GPS antenna connection to the head unit.
- **Touchscreen Unresponsive:**
  - Perform a soft reset by pressing the 'RST' button (usually a small pinhole button).
  - Ensure the screen is clean and free from debris that might interfere with touch input.
- **Rearview Camera Not Displaying:**
  - Check the backup camera's video input connection to the head unit.
  - Ensure the camera is receiving power and is functioning correctly.

## TECHNICAL SPECIFICATIONS

The JOYING 9-inch Android 12 Car Stereo is built on a Qualcomm Snapdragon 6125 platform, offering robust performance and connectivity.



Image: Detailed parameters of the Qualcomm Snapdragon 6125 chip, including CPU, GPU, and memory type.

Feature	Specification
Model Number	JY-HZ145N4
Operating System	Android 12
CPU	QCM6125 Octa Core 64bit ARM (4x A73@2.0GHz, 4x A53@1.8GHz)
GPU	Adreno 610@950 MHz
Memory Type	LPDDR4X
RAM & ROM Options	8GB+128GB / 4GB+64GB
Screen Size	9 inches
Screen Resolution	1280x800P
Screen Density	273 ppi
Refresh Rate	60 Hz

Feature	Specification
Aspect Ratio	16:10
Connectivity Technology	Wi-Fi (Wi-Fi 5), 4G/3G, Bluetooth 5.0
Positioning System	GPS / GLONASS / Baidou
Special Feature	Touchscreen, Built-in DSP, Optical/Coaxial Digital Output, HDMI Output
Compatible Devices	Smartphone (Android, iOS)
Audio Output Mode	Stereo, 4 Channel Surround Sound
Item Weight	4.58 pounds
Package Dimensions	12.83 x 9.21 x 7.76 inches

## WARRANTY AND SUPPORT

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JOYING products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official JOYING website. For technical assistance, troubleshooting, or customer service inquiries, please contact JOYING customer support through their official channels. When contacting support, please have your model number (JY-HZ145N4) and purchase information readily available.