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> JOYING Radio for Honda Civic 2016-2021 2K QLED Touch Screen Android 13 Car Stereo (Model JY-HT145N12) User Manual

JOYING JY-HT145N12

JOYING Radio for Honda Civic 2016-2021 2K QLED Touch Screen Android 13 Car Stereo User Manual

Model: JY-HT145N12

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JOYING 2K QLED Touch Screen Android 13 Car Stereo (Model JY-HT145N12) designed specifically for Honda Civic models from 2016 to 2021. Please read this manual thoroughly before installation and use to ensure proper functionality and to maximize your experience with the device.

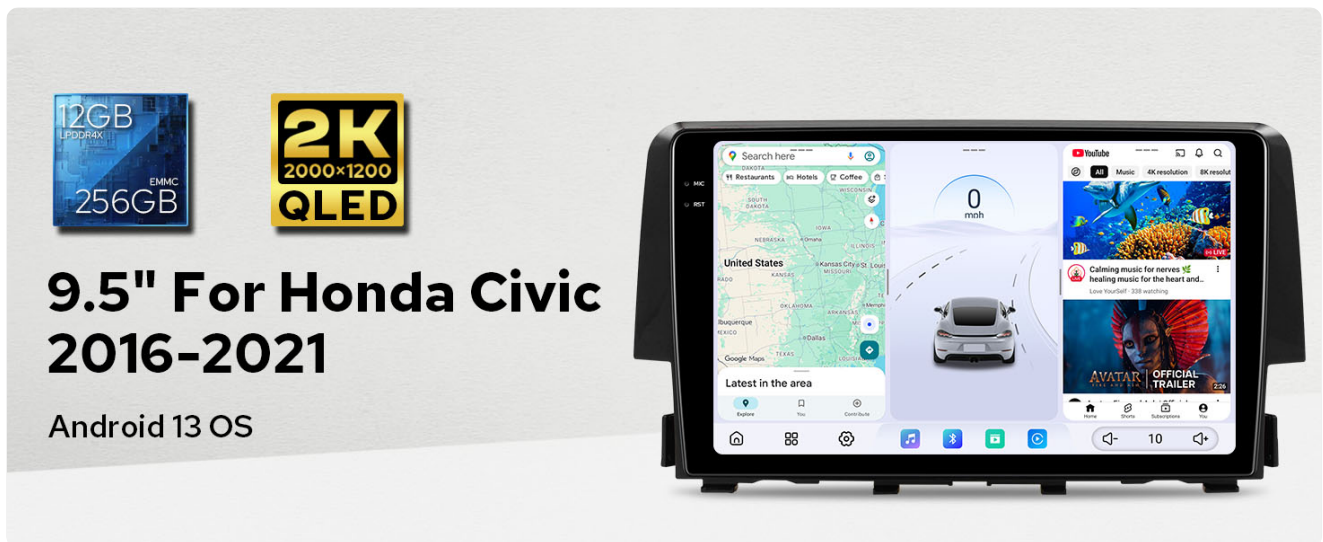


Image: The JOYING 9.5-inch QLED Android 13 Car Stereo installed in a Honda Civic dashboard, showcasing its large display and integration.

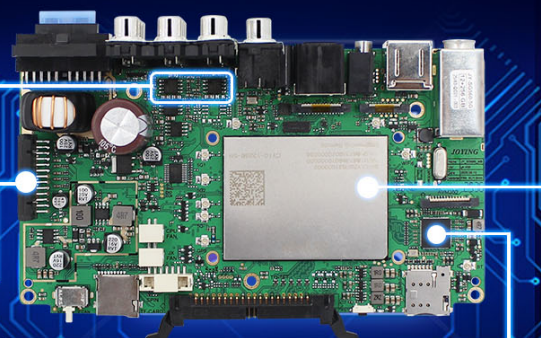
2. SELECTION GUIDE

The wiring harness for this car radio differs based on your vehicle's factory amplifier configuration. All other internal

configurations of the head unit are identical. It is crucial to select the correct option for your Honda Civic (2016-2021) to ensure compatibility and proper installation.

To confirm the correct option, please inspect your car's dashboard and existing radio connections. If you are uncertain, it is recommended to contact customer support with a photo of your car's dashboard for assistance.

Motherboard Feature Overview



Audio Output

4-channel, 5532 Op-Amp
Ultra-Low 5 nV/ $\sqrt{\text{Hz}}$ Noise
for Pure Audio Fidelity.

TDA7850 Amplifier

- * 4 x 20W (RMS)
- * 50W Max/Channel (at 14.4V)
- * 20Hz - 20kHz Frequency Response
- * THD+N < 0.1%

Image Processor TP2815
Enabling AR cameras (Front & Rear) live view and a 360° panoramic camera.

Main Processor: ARM QCM6490

GPU: Qualcomm® Adreno™ 643 @814 MHz
NPU Computing Power: **14** TOPS
Manufacturing Process: **6nm**
Benchmark Score: ≈ **660,000** points

Octa-core Kryo 670 CPU:
* 1 x A78 Gold Plus @ 2.7 GHz
* 3 x A78 Gold @ 2.4 GHz
* 4 x A55 Silver @ 1.9 GHz




Image: Visual guide to confirm your car dashboard type, illustrating differences for vehicles with and without a factory amplifier (Options A, B, C).

3. SETUP

3.1 Package Contents

Verify that all components are present in the package before beginning installation:

- 9.5" Radio Unit (x1)
- Single Din Cage (x1)
- WiFi Antenna (x2)
- GPS Antenna (x1)
- 4G Antenna (x2)
- External Microphone (x1)
- USB Cable (x2)
- AR Cable (x1)
- Screen Ribbon Cable (x1)
- Power Cable (x1) - *Note: Power cable type may vary depending on your purchase option.*
- User Manual (x1)



Image: The JOYING 9.5-inch radio unit, a key component of the package contents.

3.2 Installation

This JOYING car radio is designed for plug-and-play installation in Honda Civic 2016-2021 models. Necessary cables are supplied to facilitate a straightforward installation process without requiring cutting of original vehicle wiring.

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected before starting installation.
2. **Remove Factory Radio:** Carefully remove the existing factory radio and dashboard trim according to your vehicle's service manual.
3. **Connect Wiring Harness:** Connect the provided wiring harness to the vehicle's factory harness. Ensure all connections are secure.
4. **Connect Antennas:** Attach the GPS, WiFi, and 4G antennas to their respective ports on the JOYING head unit. Position antennas in locations that provide optimal signal reception.
5. **Connect External Microphone:** Plug in the external microphone for improved call quality and voice command accuracy.
6. **Mount Head Unit:** Secure the JOYING head unit into the dashboard using the provided single DIN cage and mounting hardware.
7. **Test Functionality:** Before reassembling the dashboard, reconnect the vehicle battery and test the basic functions of the radio, including power, audio, touch screen, and steering wheel controls.
8. **Reassemble Dashboard:** Once all functions are verified, carefully reassemble the dashboard trim.

For detailed vehicle-specific removal and installation steps, consult a professional installer or refer to your Honda Civic's service manual.

4. OPERATING INSTRUCTIONS

4.1 Core System and Display

The JOYING JY-HT145N12 operates on Android 13, powered by a Qualcomm QCM6490 8-core processor. It features a 9.5-inch 2K QLED touchscreen display, offering high resolution and vibrant colors for an enhanced user experience.



Image: The 9.5-inch QLED display showcasing navigation and media applications simultaneously.

4.2 Connectivity

- **5G WiFi & 4G Module:** Supports dual-band WiFi (2.4 & 5G & 6 GHz) for high-speed and stable network connectivity. A 4G module allows internet access via a SIM card (SIM card not included; does not support phone calls or SMS).
- **Bluetooth:** Dual-mode Bluetooth supports simultaneous connections to two smartphones or a phone and an OBD diagnostic dongle. It features Qualcomm aptX HD for high-fidelity audio streaming.
- **AM/FM Radio:** Preset 18 FM stations for local radio broadcasts.
- **CarPlay & Android Auto:** Supports both wired and wireless CarPlay and Android Auto. Connect your smartphone to access contacts, maps, music, messages, and use voice control (Siri or OK Google).



Image: The car stereo display showing both Wireless CarPlay and Android Auto interfaces, highlighting dual-mode Bluetooth capabilities.

4.3 Navigation and Apps

The system integrates navigation, entertainment, and third-party applications into a single interface. Tap the "---" icon to switch between app interfaces. Long press to switch between running applications.

- **Multiband GNSS:** The system integrates a Qualcomm Location Suite Engine supporting multiple Global Navigation Satellite Systems (GNSS) including GPS, GLONASS, NavIC, BeiDou, Galileo, and QZSS. It utilizes GNSS L1 and L5 bands, providing highly accurate and reliable positioning for navigation.
- **Mirror Link:** Allows mirroring of your smartphone screen to the head unit.

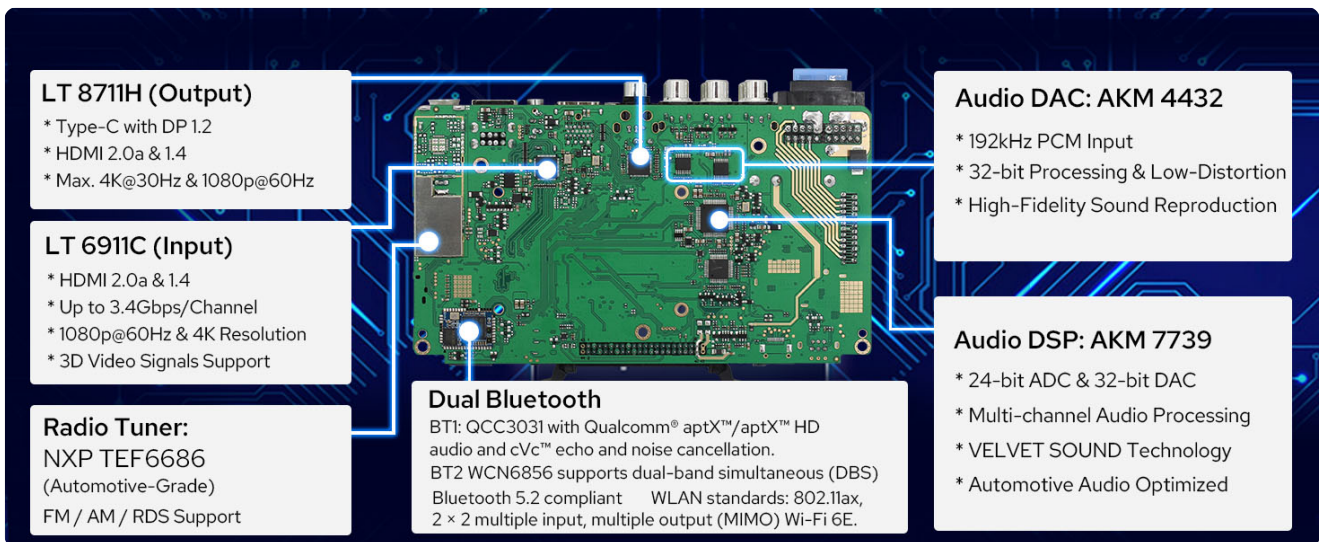


Image: The car stereo interface displaying multiple applications for navigation, entertainment, and other functions.

4.4 Audio Features

The unit features a 4-channel, 5532 Op-Amp for ultra-low noise audio output and a TDA7850 amplifier (4 x 20W RMS, 50W Max/Channel at 14.4V). It includes an AKM 4432 DAC for 192kHz PCM input, 32-bit processing, and low-distortion high-fidelity sound reproduction, along with an AKM 7739 DSP for multi-channel audio processing and VELVET SOUND Technology.

- **Sound Effects:** 20 selectable sound effect styles and a 48-band EQ allow for precise equalization and customization of bass, mid, and treble frequencies (20Hz-40kHz).
- **Audio Outputs:** Includes 4 audio outputs, 1 SUB output, Fiber Optical Output, and SPDIF Coaxial Output for high-resolution audio.

| | | | |
|---------------|------------|-------------|-------------------------|
| Bluetooth | SBC | AAC | Qualcomm aptX HD |
| Resolution | 16Bit | 16Bit/24Bit | 24bit/48kHz |
| Bit Rate | 256kbps | 320Kbps | 576kbps |
| Bandwidth | 20Hz-17kHz | 20Hz-20kHz | 20Hz-22kHz |
| Delay | 200ms | 120ms | 60ms |
| Sound Quality | Normal | Normal | Lossless |

Note: aptX/aptX HD Audio: Compatible with Android phones only. The iPhone defaults to the AAC codec.

Image: Diagram showing DTS Sound Enjoyment with sound waves emanating from speakers within a car interior, highlighting the 4-channel audio output.

Light/Dark Mode with Manual or Auto Switching

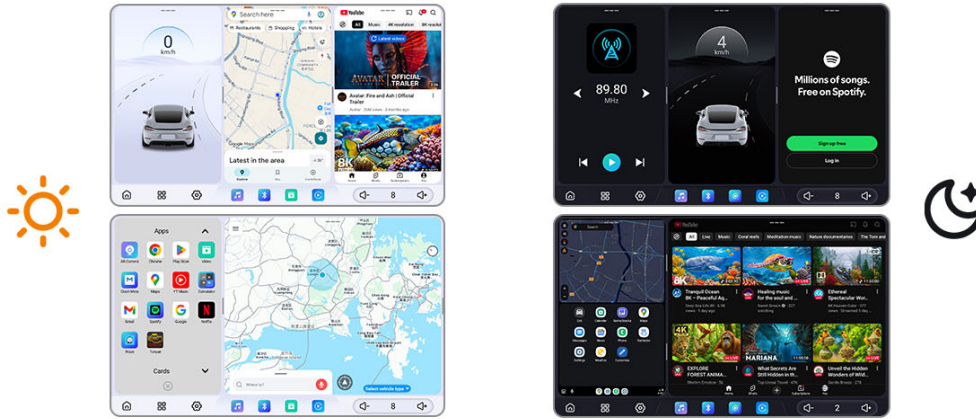


Image: Screenshots of the car stereo's interface for 20 selectable sound effect styles and the 48-band equalizer, along with details on AKM 7739 DSP and AKM 4432 DAC.

Multiband GNSS - Integrated

Qualcomm® Location Suite Engine Global positioning system (GPS), GLONASS, NavIC, BeiDou, Galileo, quasi-zenith satellite system (QZSS) Supports GNSS L1 and L5 bands.

Generation : Wi-Fi 6E Standards : 802.11ac, 802.11n, 802.11ax, 802.11g, 802.11b Spectral Bands : 2.4 GHz, 6 GHz, 5 GHz MIMO Configuration : 2x2

Features : MU-MIMO (UL/DL), OFDMA, Dual-Band Simultaneous (DBS)3

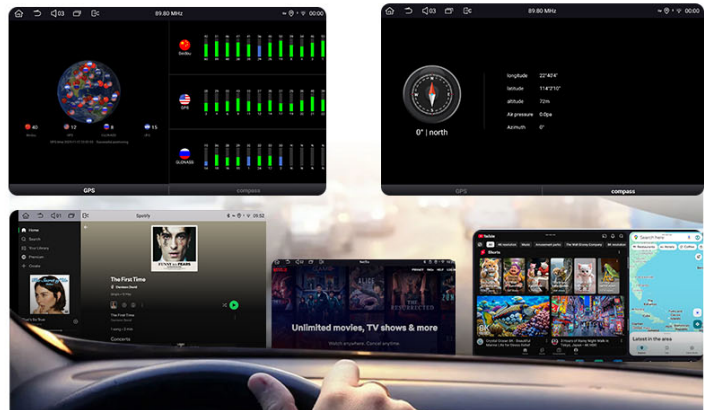


Image: A comparison table detailing the specifications of Bluetooth audio codecs including SBC, AAC, and Qualcomm aptX HD, emphasizing lossless audio with aptX HD.

4.5 Retained Original Vehicle Features

The JOYING head unit is designed to integrate seamlessly with your Honda Civic, retaining several original vehicle functionalities:

- Oil Life Reset
- Factory USB
- OEM Amplifier (if applicable to your vehicle's configuration)
- Factory A/C Information
- Tire Pressure Calibration
- Factory Door Information
- Factory Steering Wheel Control
- Factory LaneWatch Camera
- Factory Track Line / Parking Sensor



9.5" For Honda Civic 2016-2021

Android 13 OS



Image: A graphic listing various original vehicle features that are retained and compatible with the JOYING car stereo, such as Oil Life Reset, Factory USB, and Steering Wheel Control.

4.6 Head Unit Rear Interfaces

Familiarize yourself with the rear interfaces of the head unit for proper connection of accessories and external devices.

20 selectable sound effect styles and 48-band EQ deliver precise equalization for discerning audiophiles. They offer an extended frequency range of 20Hz-40kHz, allowing for detailed customization of bass, mid, and treble to match personal listening preferences.

4 * Audio Outputs
1* SUB Output

Fiber Optical Output

SPDIF Coaxial Output

High-resolution audio

Velvet Sound
AKM 7739 DSP
 24-bit ADC & 32-bit DAC

High-Fidelity Sound
AKM 4432 DAC
 192kHz PCM Input
 32-bit Processing & Low-Distortion

Image: Detailed diagram of the rear interfaces of the JOYING head unit, showing ports for HDMI In/Out, USB, Type-C, Antennas (WiFi, GPS, 4G), and various audio/video connections.

- **HDMI Input:** Connect external devices like gaming consoles or media players for big-screen enjoyment.
- **HDMI Output:** Sync the infotainment screen's navigation and media to rear headrest screens for back-seat viewing.
- **USB Type-C:** Connect compatible devices to map the screen and achieve dual-screen operation.

Note: HDMI cable and USB Type-C cable are not included.

4.7 Light/Dark Mode

The system supports both Light and Dark modes, which can be switched manually or set to automatic switching based on ambient light conditions or time of day for optimal visibility and reduced eye strain.

Advanced Engineering High-Efficiency Cooling



Image: Screenshots demonstrating the car stereo's interface in both Light Mode (daytime) and Dark Mode (nighttime), with options for manual or automatic switching.

5. MAINTENANCE

- **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.
- **Software Updates:** Periodically check for software updates through the system settings or the manufacturer's website to ensure optimal performance, security, and access to new features.
- **System Reset:** If the system becomes unresponsive, a soft reset can often resolve the issue. Refer to the system settings for reset options. A factory reset should only be performed as a last resort, as it will erase all user data and settings.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Cooling System:** The unit incorporates an advanced high-efficiency cooling system to maintain optimal operating temperatures and ensure long-term stability. This system helps prevent overheating, which is crucial for the performance and lifespan of the electronic components. Ensure that the vents are not obstructed to maintain proper airflow.

6. TROUBLESHOOTING

If you encounter issues with your JOYING car stereo, refer to the following common troubleshooting steps:

- **No Power:**
 - Check all power connections to ensure they are securely plugged in.
 - Verify the vehicle's fuse for the radio is intact.
 - Ensure the vehicle battery is properly connected and charged.
- **No Sound:**
 - Check volume levels on the head unit and any connected devices.
 - Ensure speaker wires are correctly connected.
 - Verify the audio source is selected correctly.
 - If your vehicle has a factory amplifier, ensure the correct wiring harness was used.
- **Touchscreen Unresponsive:**

- Perform a soft reset of the unit (refer to the system settings or power cycle the unit).
 - Ensure the screen is clean and free of debris.
- **GPS Signal Issues:**
 - Ensure the GPS antenna is properly installed and has a clear view of the sky.
 - Check GPS settings within the system.
- **Bluetooth Connectivity Problems:**
 - Ensure Bluetooth is enabled on both the head unit and your device.
 - Delete previous pairings and attempt to re-pair the device.
 - Move the device closer to the head unit.
- **CarPlay/Android Auto Not Connecting:**
 - For wired connections, try a different USB cable.
 - Ensure your phone's operating system is up to date.
 - Check settings on both the head unit and your phone for CarPlay/Android Auto permissions.

If these steps do not resolve the issue, please contact JOYING customer support for further assistance.

7. SPECIFICATIONS

| Feature | Specification |
|-------------------------|--|
| Brand | JOYING |
| Model Name | HT145N12 |
| Vehicle Service Type | Car (Honda Civic 2016-2021) |
| Screen Size | 9.5 Inches |
| Display Type | QLED |
| Touch Screen Type | Capacitive |
| Operating System | Android 13 |
| Processor | Qualcomm QCM6490 8-Core (6nm process) |
| RAM | 12GB |
| Memory Storage Capacity | 256 GB |
| Connectivity Technology | Bluetooth, Ethernet, USB, Wi-Fi (5G/6GHz), 4G Module |

| Feature | Specification |
|---------------------------------------|---|
| Supported Satellite Navigation System | BeiDou, GLONASS, GPS, Galileo, QZSS |
| Audio Output Mode | Stereo (4-channel, 5532 Op-Amp, TDA7850 Amplifier) |
| Audio DAC | AKM 4432 (192kHz PCM, 32-bit) |
| Audio DSP | AKM 7739 (24-bit ADC & 32-bit DAC) |
| Radio Tuner | NXP TEF6686 (Automotive-Grade, FM/AM/RDS Support) |
| Special Features | Bluetooth, Touchscreen, Wireless CarPlay & Android Auto, Mirror Link, 5G WiFi, 4G, GPS, HDMI In/Out |
| Included Components | 9.5" radio, Single Din Cage, WiFi Antenna (x2), 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) |

8. OPTIONAL ACCESSORIES

The following accessories are not included in the standard package and need to be purchased separately to enhance the functionality of your JOYING car stereo:

- **AR Front Camera:** Records the road ahead while driving.
- **AR Rear Camera:** Automatically switches to the reverse display when backing up.
- **OBD2 Dongle:** Connects via Bluetooth to retrieve real-time data and trouble codes from your vehicle's computer.

Optional Accessories

(Note: NOT included in the package and need to be purchased separately.)



AR Front Camera
Record the front road in the background automatically while driving.



AR Rear Camera
Switch to the reverse display automatically when reversing the car.



OBD2
Connected via Bluetooth to retrieve real-time data and trouble codes from your vehicle computer.





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

Image: A visual representation of optional accessories such as AR Front Camera, AR Rear Camera, and an OBD2 dongle, illustrating their functions and integration with the car stereo system.

9. WARRANTY INFORMATION

The JOYING JY-HT145N12 car stereo comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the official JOYING website or contact customer support.

10. CUSTOMER SUPPORT

If you require technical assistance, have questions about installation, or need support for your JOYING car stereo, please contact JOYING customer support through the following channels:

- **Online Support:** Visit the official JOYING website for FAQs, troubleshooting guides, and contact forms.
- **Email Support:** Refer to your product packaging or the official website for the customer support email address.
- **Amazon Messaging:** For purchases made on Amazon, you can contact the seller directly through the Amazon messaging system.

When contacting support, please provide your product model number (JY-HT145N12) and a detailed description of the issue.