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Roinvou 8 Núcleo 4G+64G

Roinvou Android Radio User Manual

Model: 8 Núcleo 4G+64G

For Ford F-150 F150 (2009-2012)

Overview Installation Operation Troubleshooting Specifications Support

1. Product Overview

The Roinvou Android Radio is an advanced in-dash head unit designed to upgrade the infotainment system of Ford F-150 models from 2009 to 2012. This unit integrates a powerful Android operating system with an 8-core CPU, providing a smooth and responsive user experience. It features a high-definition 9-inch IPS touch screen for enhanced visual clarity and ease of use.

Key functionalities include wireless and wired Apple CarPlay and Android Auto, Bluetooth 5.0 for stable connections, a 32-band Equalizer (EQ) for superior audio customization, built-in GPS navigation, and Wi-Fi connectivity for online services. The system also supports integration with a backup camera and existing steering wheel controls, enhancing both convenience and safety.



Figure 1.1: Roinvou Android Radio with included accessories.

2. Key Features

2.1. Android System & Display

- **Operating System:** Latest Android System for powerful and smooth performance.
- **Processor:** 8-Core CPU for higher performance and responsiveness.
- **Memory:** 4GB RAM + 64GB ROM configuration.
- **Display:** 9-inch HD capacitive IPS touch screen with 1280*720 resolution, offering improved color effect and scratch resistance.
- **Customization:** Equipped with 19 wallpaper options and 59 UI desktop themes.



Figure 2.1: High-definition 1080P IPS Touch Screen with 1280*720 resolution, scratch-resistant, and anti-knock properties.



Figure 2.2: Illustration of the powerful Android system with ultra-fast running speed, featuring 4GB RAM and 64GB ROM.

2.2. Wireless/Wired CarPlay & Android Auto

- Seamlessly connect your smartphone via Bluetooth (wireless) or USB data cable (wired).
- Access phone calls, music, GPS navigation, and smart voice control (Siri/Google Assistant).



Figure 2.3: Connectivity options for Wireless Carplay (Bluetooth/USB), Android Auto (Bluetooth/USB), and Mirror Link (WiFi/USB).

2.3. Audio Features

- **32-Band EQ:** Pre-installed car tuning software allows adjustment of frequency, 32-band EQ, and sound type for optimal audio quality.
- **FM/RDS Radio:** Built-in FM/RDS radio for listening to news, real-time traffic, and weather forecasts.

2.4. Connectivity & Navigation

- **Bluetooth 5.0:** Ensures a stable connection for hands-free calls, phone book synchronization, and music streaming.
- **Mirror Link:** Synchronize your Android or iOS smartphone screen to the head unit for a larger display.
- **WiFi & GPS:** Connect to WiFi to download various applications, stream online music/videos, and use built-in GPS navigation with offline map support.

2.5. Vehicle Integration

- **Backup Camera Support:** Automatically switches to reverse image when the vehicle is in reverse.
- **Steering Wheel Control (SWC):** Easily control desired functions without removing hands from the steering

wheel.



Figure 2.4: Display of reverse image functionality with a backup camera and steering wheel control interface.

3. Installation Guide

This section provides a general guide for installing the Roinvou Android Radio in your Ford F-150 (2009-2012). It is recommended to consult a professional if you are unsure about any steps. Ensure the vehicle's power is off before beginning installation.

3.1. Pre-Installation Checks

- Verify compatibility: This unit is designed for Ford F-150 2009-2012 models.
- Ensure your original car does not come with a large 4-inch screen.
- Check if the power cable port on the head unit matches your original car's wiring.
- Confirm you have all components: head unit, wiring harness cables, CANBUS decoder, and frame panel.

3.2. Tools Required (Commonly Used)

- Panel removal tool (plastic pry tool)
- 7mm socket wrench or screwdriver
- T20 Torx screwdriver
- Wire strippers/crimpers (if custom wiring is needed)

3.3. Disassembly of Original Unit

1. Carefully remove the two 7mm bolts located at the top of the original radio bezel.
2. Use a pry tool to gently unclip the original radio bezel from the dashboard. Start from the edges and work your way around.
3. Once the bezel is loose, disconnect all wiring harnesses from the back of the climate control panel and the radio unit.
4. Remove the four 7mm bolts securing the original radio unit to the dashboard.
5. Carefully pull out the original radio unit and disconnect any remaining wiring harnesses, including the antenna cable.

▶ **Watch video online**
A7015 Center Console Disassembly Wiring Method

Video 3.1: Detailed guide on disassembling the Ford F-150 center console and original radio unit for replacement.

This video demonstrates the process of removing the original head unit and climate control panel from a Ford F-150, including the location of screws and wiring harnesses. It also shows the separation of the climate control board from the original bezel.

3.4. Transferring Components to New Bezel

1. On the original radio bezel, locate and remove the T20 bolts securing the climate control board.
2. Carefully detach the climate control board from the original bezel.
3. Transfer the climate control board to the new Roinvou head unit's bezel, securing it with the T20 bolts.
4. If applicable, transfer the 12V power outlet (cigarette lighter socket) from the original bezel to the new one.

3.5. Connecting the New Unit

- Connect the provided wiring harness to the vehicle's factory harness. Ensure all connections are secure.
- Connect the CANBUS decoder to the appropriate harness. This is crucial for retaining steering wheel controls and other vehicle functions.
- Connect the GPS antenna and route it to a suitable location (e.g., under the dashboard, near the A-pillar) for optimal signal reception.
- Connect the external microphone and route it to a convenient location for hands-free calling.
- If installing a backup camera, connect its video and power cables according to the provided diagram. The video cable typically connects to the head unit's 'REVERSE IN' port, and the camera power connects to the vehicle's reverse light circuit.
- Connect the radio antenna.

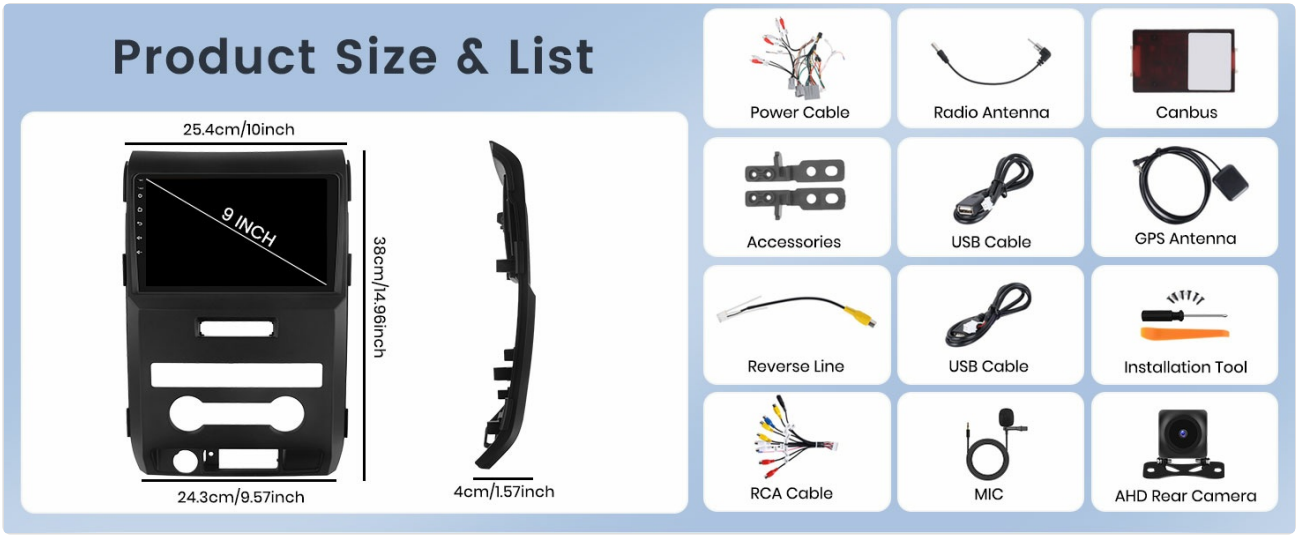


Figure 3.1: Diagram illustrating the wiring for a reversing camera, showing connections to the head unit and vehicle's reverse lamp.

3.6. Reassembly

1. Carefully slide the new head unit with its bezel into the dashboard opening.
2. Secure the head unit with the four 7mm bolts.
3. Snap the bezel back into place, ensuring all clips are properly engaged.
4. Reinstall the two 7mm bolts at the top of the bezel.
5. Test all functions of the new head unit before fully securing all panels.

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4. Operating Instructions

4.1. Basic Navigation

- **Home Screen:** Tap the home icon to return to the main interface.
- **Applications:** Swipe left/right or tap the app drawer icon to access installed applications.
- **Settings:** Tap the 'Settings' icon to adjust system preferences, network settings, display, sound, and more.

4.2. CarPlay / Android Auto

- Connect your iPhone or Android phone via Bluetooth for wireless connection or via the original USB data cable for wired connection.
- The system will prompt you to launch CarPlay or Android Auto. Follow on-screen instructions to complete the setup.
- Use voice commands (Siri or Google Assistant) for navigation, calls, and music control.

4.3. Bluetooth Pairing

1. On the head unit, navigate to the 'Bluetooth' application.
2. Ensure Bluetooth is enabled on your smartphone and set to 'discoverable'.
3. On the head unit, search for available devices. Select your phone from the list.
4. Confirm the pairing code on both devices.
5. Once paired, you can make/receive calls and stream audio.

4.4. Radio Operation

- Open the 'FM/RDS Radio' application.

- Use the on-screen controls or steering wheel controls to scan for stations, tune manually, or select presets.
- RDS (Radio Data System) provides additional information like station name and song title where available.

4.5. Sound Settings (32-Band EQ)

- Access the 'EQ' or 'Sound Settings' application from the main menu.
- Adjust the 32-band equalizer to customize the audio output to your preference.
- Select from various preset sound types or create your own custom profile.

4.6. GPS Navigation & WiFi

- Connect to a Wi-Fi hotspot (e.g., from your phone) to access online maps and download applications from the Play Store.
- The built-in GPS allows for offline navigation by downloading maps directly from the Play Store.

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5. Troubleshooting

This section addresses common issues and provides potential solutions.

5.1. Power Issues

- **Issue:** Radio does not turn off with the key.
- **Solution:** This often indicates a wiring issue related to the ACC (Accessory) power. Double-check the wiring harness connections, especially the CANBUS module, to ensure proper communication with the vehicle's ignition system. Consult the wiring diagram provided with the unit.
- **Issue:** Unit has no power.
- **Solution:** Check the vehicle's fuse box for any blown fuses related to the radio or accessory power. Verify all power connections to the head unit are secure.

5.2. Connectivity Issues

- **Issue:** Bluetooth connection is unstable or frequently cuts off.
- **Solution:** Ensure your phone's Bluetooth is updated and functioning correctly. Try restarting your phone and the head unit. Clear previous Bluetooth pairings on both devices and attempt to re-pair. Ensure no other devices are interfering with the Bluetooth signal.
- **Issue:** CarPlay/Android Auto not connecting or functioning correctly.
- **Solution:** For wired connections, try a different USB cable. Ensure your phone's operating system and the CarPlay/Android Auto apps are up to date. Restart both the phone and the head unit. Check the USB port on the head unit for any debris.

5.3. Display & Touchscreen Issues

- **Issue:** Screen is out of calibration or touch input is not working correctly.
- **Solution:** Place five fingers on the screen and hold for a few seconds. A calibration screen should appear. Follow the on-screen instructions to recalibrate the touch screen. If this does not work, perform a system reset via the settings menu.

5.4. Camera Issues

- **Issue:** Backup camera image is not displaying or is distorted.
- **Solution:** Verify all camera wiring connections, especially the video RCA cable and power supply. Ensure

the camera is receiving power when the vehicle is in reverse. Check the camera settings in the head unit's menu.

- **Issue:** Camera guidelines are not appearing.
- **Solution:** Access the 'Car Info' app on the head unit, then navigate to 'About' and 'Custom Settings'. Look for options to enable 'track line dynamic' or 'static' guidelines.

6. Specifications

Feature	Specification
Product Dimensions	9.65 x 1.57 x 14.96 inches
Item Weight	4.02 pounds
Item Model Number	8 Núcleo 4G+64G
System	Latest Android System
Memory	4GB RAM + 64GB ROM
Processor	8 Core
Screen Resolution	1280*720
Bluetooth Version	5.0
Audio Output Mode	Stereo
Surround Sound Channel Configuration	5.1
Video Encoding	H.264, H.265/HEVC, MPEG-4
Color	Matt Black

Table 6.1: Product Specifications.

7. Warranty and Support

Roinvou offers customer support for product inquiries and technical assistance. For any issues not covered in this manual, please contact Roinvou customer service directly.

Contact Information:

- Email: roinvouservices@163.com
- For general inquiries, visit the Roinvou Store on Amazon.

Please retain your proof of purchase for warranty claims. Warranty terms and conditions are subject to the policies of the retailer and manufacturer.

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