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› RONGJI 9-inch IPS Touch Screen Car Radio User Manual for Opel Astra H (Model: 8Core 4+32GB)

RONGJI 8Core 4+32GB

RONGJI 9-inch IPS Touch Screen Car Radio User Manual

Model: 8Core 4+32GB for Opel Astra H (2004-2014)

1. PRODUCT OVERVIEW

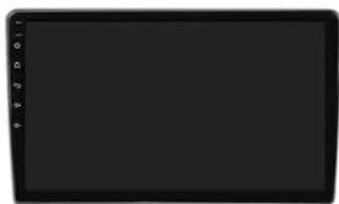
This RONGJI car radio is an advanced 9-inch IPS touch screen multimedia system designed for Opel Astra H models from 2004 to 2014. It operates on an Android OS with an Octa-Core CPU, 4GB RAM, and 32GB ROM, providing a responsive and smooth user experience. Key features include built-in Wireless/Wired Car-Play and Android Auto, Bluetooth for hands-free calling and music streaming, FM/AM radio with RDS, a powerful DSP for enhanced audio, integrated WiFi, and GPS navigation capabilities.

The unit features a 1280*720 high-resolution capacitive touch screen, supporting split-screen functionality for simultaneous display of two applications. It also supports steering wheel controls for convenient operation while driving.

2. PACKAGE CONTENTS

Verify that all components listed below are included in your package. If any items are missing or damaged, please contact customer support.

Package Contents



Machine



Power Cable+Canbus Box



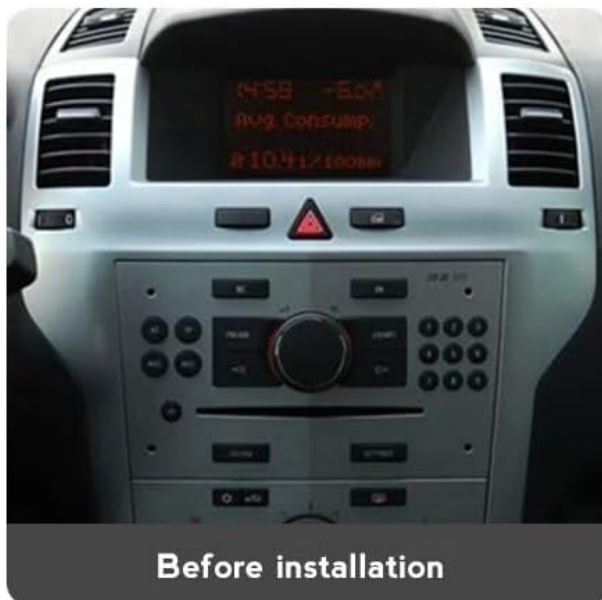
This image displays the various components included in the package. It shows the main head unit, power cable with Canbus box, RCA cables, reversing camera cable, USB cables, external microphone, GPS antenna, and for 8-core models, an additional 4G antenna and extra audio output cables.

- Main Head Unit (9-inch IPS Touch Screen)
- Power Cable + Canbus Box
- RCA Cable Set
- Reversing Camera Input Cable
- USB Cables (x2 for 8-Core models)
- External Microphone
- GPS Antenna
- 4G Antenna (for 8-Core models)

3. SETUP AND INSTALLATION

Before beginning installation, ensure your vehicle is compatible with this unit. This car radio is specifically designed for Opel Astra H models manufactured between 2004 and 2014. It is recommended to compare your car's dashboard photo with the product images to confirm compatibility. If unsure, consult a professional

installer or contact customer support with photos of your dashboard and the back of your OEM radio.



This image illustrates the visual transformation of the car's dashboard. The 'Before installation' view shows the original car radio, while the 'After installation' view displays the new 9-inch IPS touch screen car radio seamlessly integrated into the dashboard.

3.1 Basic Installation Steps:

1. **Disconnect Battery:** Before any electrical work, disconnect the vehicle's negative battery terminal to prevent short circuits.
2. **Remove OEM Radio:** Carefully remove the existing car radio and dashboard trim. Refer to your vehicle's service manual for specific instructions.
3. **Connect Wiring Harness:** Connect the provided power cable and Canbus box to the vehicle's wiring harness. Ensure all connections are secure.
4. **Connect Peripherals:** Attach the GPS antenna, external microphone, USB cables, and reversing camera cable (if applicable) to the corresponding ports on the new head unit. Position the GPS and 4G antennas in locations with clear signal reception.
5. **Test Functionality:** Before fully reassembling the dashboard, temporarily connect the battery and power on the unit to test basic functions like power, audio, and touch screen response.
6. **Secure Unit:** Mount the new head unit securely into the dashboard opening.

7. **Reassemble Dashboard:** Reinstall all dashboard trim pieces.
8. **Reconnect Battery:** Reconnect the vehicle's negative battery terminal.

Steering Wheel Control (SWC): This unit supports digital steering wheel controls. After installation, you may need to configure the SWC settings in the unit's system menu to map the buttons correctly.

4. OPERATING INSTRUCTIONS

4.1 Car-Play & Android Auto

The unit features built-in Wireless and Wired Car-Play and Android Auto. This allows for intuitive access to calls, music, navigation, and other apps from your smartphone, enhancing driving safety and convenience.



This image illustrates the user interfaces for Car-Play and Android Auto as displayed on the car radio. It shows how both wired and wireless connections are supported for these smartphone integration features.

- **Wired Connection:** Connect your smartphone to the unit via a USB cable.
- **Wireless Connection:** Enable Bluetooth and Wi-Fi on your smartphone and pair it with the car radio. Follow the on-screen prompts to initiate Car-Play or Android Auto.

4.2 Bluetooth (BT)

The integrated Bluetooth module supports hands-free calling, phone book synchronization, and audio streaming. The unit has a built-in microphone, and an external microphone is also provided for clearer call quality.

- **Pairing:** Go to the Bluetooth settings on the car radio, enable Bluetooth, and search for available devices on your smartphone. Select the car radio's name to pair.
- **Hands-Free Calling:** Once paired, you can make and receive calls directly from the car radio's interface.
- **Music Streaming:** Play audio from your smartphone through the car's speakers via Bluetooth.

4.3 FM/AM Radio with RDS

Enjoy stable radio frequency reception with the built-in FM/AM tuner and RDS (Radio Data System) support. You can search for channels automatically or manually.



This image displays two main features: the FM/AM radio interface, showing frequency tuning and station presets, and the DSP Processor interface, which allows for detailed audio equalization and sound effect adjustments.

- **Automatic Search:** Access the radio application and select the automatic search function to scan and save available stations.
- **Manual Tuning:** Manually adjust the frequency to find specific stations.
- **Preset:** Save your favorite stations for quick access.

4.4 GPS Navigation

The unit includes a built-in GPS module and an external GPS antenna for accurate navigation. You can use online maps (with internet connection) or download offline maps for navigation without mobile data.



GPS accurate positioning

Built-in global positioning system , omni-directional map display , synchronous display real-time traffic conditions ,rapid and accurate positioning

GPS | GLONASS | BDS



Support WIFI

Built-in Wifi module allows you to watch online videos, listen to music, play games, and navigate online when connected to wifi.



This image highlights the GPS navigation capabilities, showing a map display with real-time traffic and positioning. It also illustrates the WiFi support, indicating how the unit can connect to the internet for online services and app downloads.

- **Online Maps:** Connect to Wi-Fi and use pre-installed or downloaded navigation apps.
- **Offline Maps:** Within the navigation app, download maps for your desired regions to use without an internet connection.

4.5 Wi-Fi Connectivity

The built-in Wi-Fi receiver allows you to connect the car radio to your home Wi-Fi network or a mobile hotspot. This enables access to online content, app downloads, and real-time services.

- **Connecting to Wi-Fi:** Go to the system settings, select Wi-Fi, and choose your desired network. Enter the password if required.
- **App Downloads:** Access the app store to download various applications.

4.6 Split Screen Function

The unit supports split-screen functionality, allowing you to display two applications simultaneously on the 9-inch screen. This can be useful for navigation while listening to music or browsing.

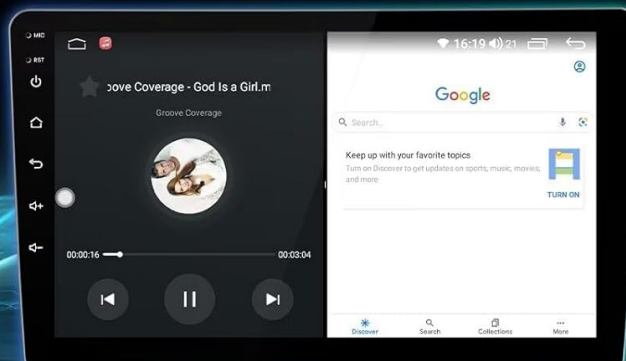
HD Capacitive Split Touch Screen

Support for two applications to be displayed on the screen at the same time which makes the operation more convenient and faster

WEB+FM / MAP+FM etc...

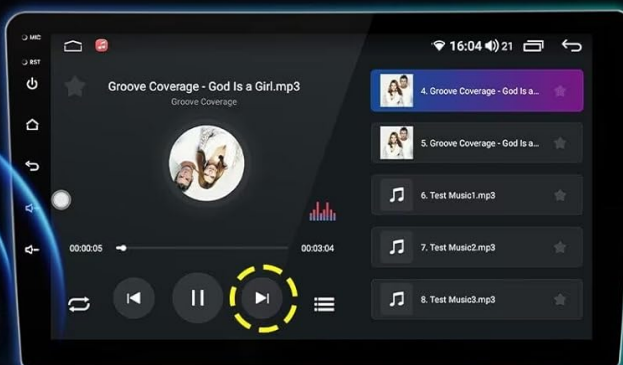


Music+WEB



Steering Wheel Control

Take control of the music or use hands-free calling function for safety to and concentrate on the road ahead. This head unit's steering wheel control (SWC) works with a digital SWC.



This image demonstrates the split-screen feature, showing two applications (e.g., web browser and music player) running side-by-side. It also illustrates the steering wheel control interface, highlighting how physical buttons on the steering wheel can be used to control the unit.

- **Activating Split Screen:** Typically, this can be done by long-pressing the recent apps button or dragging an app to one side of the screen.

4.7 DSP Processor (Equalizer)

The built-in DSP (Digital Signal Processor) allows for advanced audio customization. You can adjust various frequencies to achieve optimal sound quality tailored to your preferences.

- **Accessing DSP:** Navigate to the audio settings or a dedicated DSP app on the unit.
- **Adjusting Settings:** Use the equalizer to fine-tune bass, treble, and mid-range frequencies. Pre-set sound modes may also be available.

5. MAINTENANCE

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

- **Screen Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner specifically designed for electronics. Avoid harsh chemicals or abrasive materials.
- **Software Updates:** Periodically check for available software updates through the unit's system settings. Updates can improve performance, add new features, and fix bugs.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for extended periods, as this can affect its electronic components.
- **Cable Connections:** Ensure all cables are securely connected and not pinched or damaged.

6. TROUBLESHOOTING

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

- **No Power:**
 - Check all power connections and fuses.
 - Ensure the vehicle's battery is properly connected and charged.
- **No Sound:**
 - Verify volume settings are not muted or too low.
 - Check speaker wire connections.
 - Ensure the correct audio source is selected.
- **Touch Screen Unresponsive:**
 - Restart the unit (turn off the car ignition and restart).
 - Perform a system reset if available in the settings (this may erase user data).
- **GPS Signal Loss:**
 - Ensure the GPS antenna is properly connected and has a clear view of the sky.
 - Check GPS settings within the navigation application.
- **Bluetooth Connection Issues:**
 - Ensure Bluetooth is enabled on both the car radio and your smartphone.
 - Delete previous pairings and attempt to re-pair the devices.
 - Restart both devices.
- **Car-Play/Android Auto Not Working:**
 - For wired connections, try a different USB cable.
 - Ensure your phone's operating system is up to date.
 - Check Car-Play/Android Auto settings on both the unit and your phone.

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

7. SPECIFICATIONS

Feature	Specification
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Display Size	9 Inches
Display Type	IPS LCD
Touch Screen Type	Capacitive
Operating System	Android
CPU	Octa Core
Memory (RAM)	4 GB
Storage (ROM)	32 GB
Resolution	1280*720
Connectivity Technology	Bluetooth, Wi-Fi
Special Features	Built-in Car-Play & Android Auto, GPS Navigation, FM/AM Radio with RDS, DSP Processor, Steering Wheel Control, Split Screen Function
Vehicle Service Type	Car (Opel Astra H 2004-2014)
Voice Command	Microphone, Touchscreen
Map Type	Worldwide (Online/Offline)