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- › electrosmart /
- › electrosmart Car Radio Stereo User Manual for Toyota Avalon (2006-2010)

electrosmart RM

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Model: RM

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your new electrosmart Car Radio Stereo Head Unit, model RM. This unit is specifically designed for Toyota Avalon models manufactured between 2006 and 2010, offering a 9-inch HD touchscreen with integrated CarPlay, Android Auto, GPS, Bluetooth, Wi-Fi, and a backup camera. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** Due to the complexity of vehicle wiring, professional installation is highly recommended to prevent damage to the unit or your vehicle.
- **Driving Safety:** Do not operate the unit in a way that distracts you from driving. Always prioritize road safety.
- **Power Supply:** Ensure the unit is connected to a 12V DC power supply with negative grounding. Incorrect voltage can cause damage.
- **Temperature:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- **Moisture:** Keep the unit dry. Exposure to moisture can lead to malfunction or electric shock.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating.

3. PACKAGE CONTENTS

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

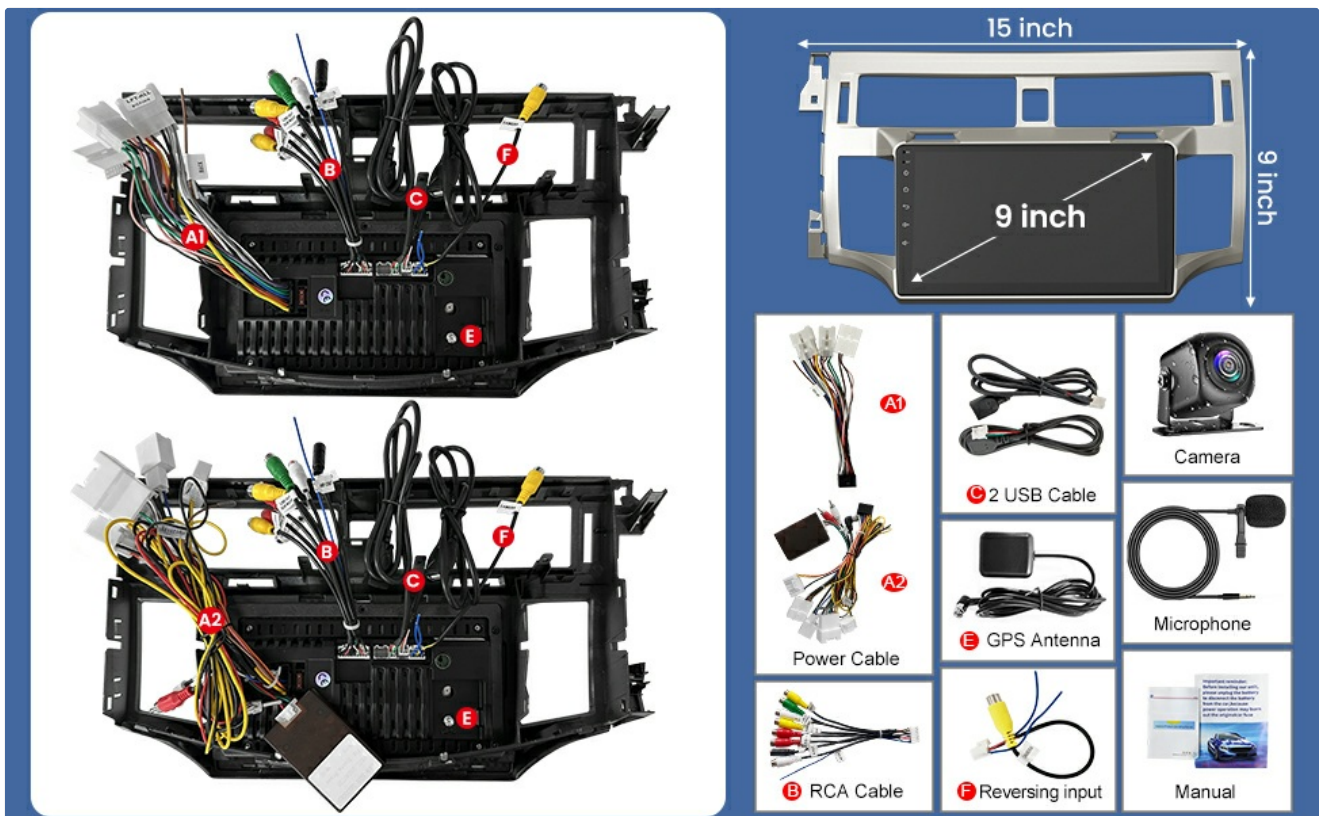


Figure 3.1: Package Contents. This image illustrates the main head unit along with all accompanying accessories such as power cables (A1, A2), RCA cables (B), USB cables (C), GPS antenna (E), reversing input cable (F), microphone, and backup camera.

- 9-inch Head Unit (1)
- Power Cable (A1, A2) (2)
- RCA Cable (B) (1)
- USB Cable (C) (2)
- GPS Antenna (E) (1)
- Reversing Input Cable (F) (1)
- Microphone (1)
- Backup Camera (1)
- User Manual (1)

4. SETUP AND INSTALLATION

This head unit is designed for a perfect fit in Toyota Avalon models from 2006 to 2010. Before proceeding with installation, confirm compatibility by checking the year, dimensions, and shape of your vehicle's center console. If unsure, consult a professional or contact customer support with pictures of your car model and center console.



Figure 4.1: Installed Head Unit. This image demonstrates the electrosmart car radio stereo effectively installed within the dashboard of a Toyota Avalon.

4.1. Pre-Installation Checks

- Ensure the vehicle's ignition is off and the battery is disconnected before starting installation.
- Verify all components listed in Section 3 are present.
- For vehicles with factory navigation or JBL sound systems, the original radio may need to be retained or its circuit board integrated to maintain climate control and information screen functionality.

4.2. Wiring Connections

Refer to the wiring diagram provided in the package and consult a professional if you are unfamiliar with car audio installation. Incorrect wiring can lead to malfunctions.

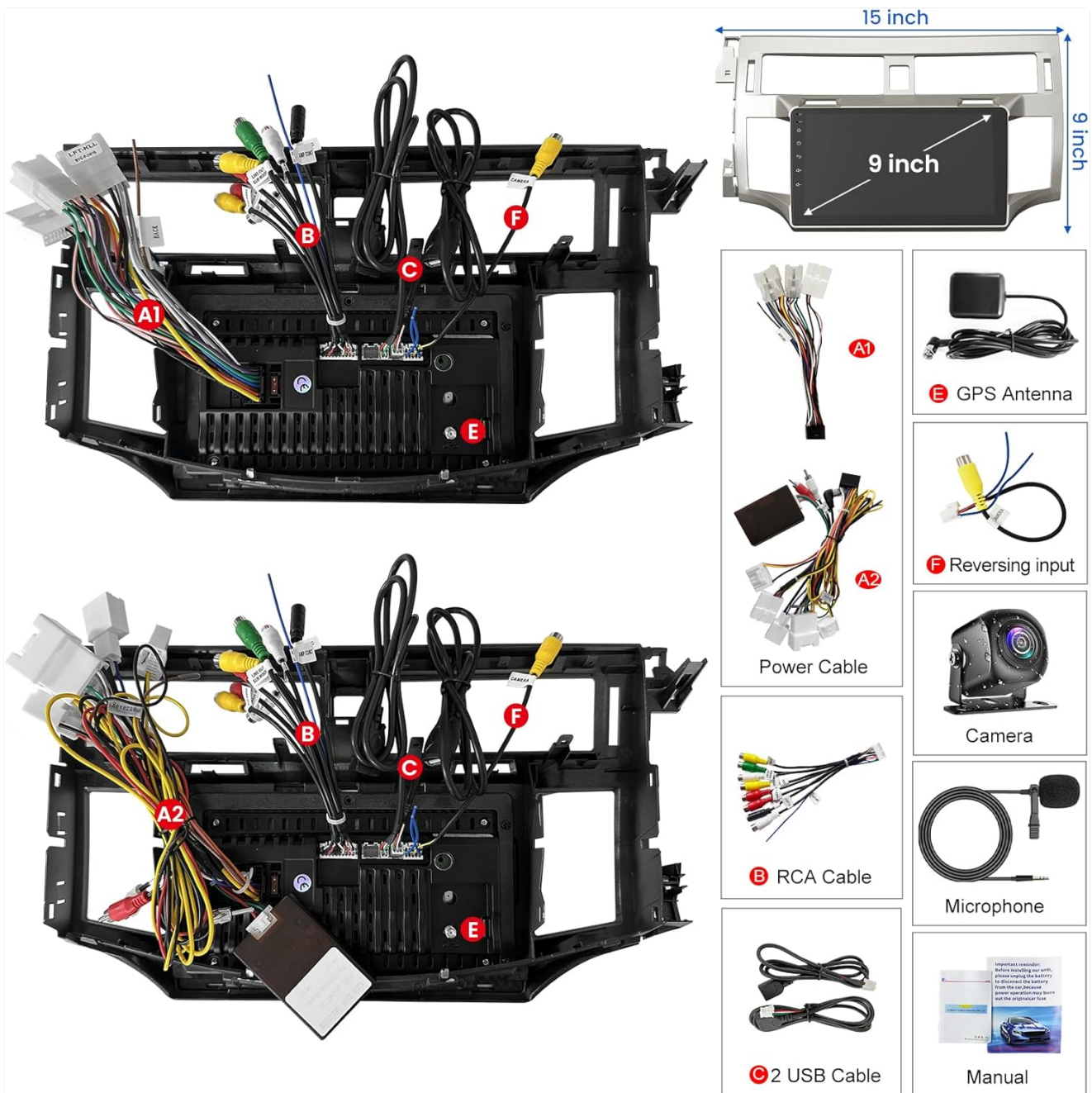


Figure 4.2: Wiring Diagram. This diagram illustrates the various connections for the head unit, including power, speaker outputs, USB ports, GPS antenna, and reversing camera input.

4.3. Mounting the Head Unit

- Carefully remove the original car radio and trim.
- Connect all necessary cables (power, speaker, antenna, GPS, USB, backup camera).
- Mount the new head unit into the dashboard opening, ensuring a secure fit.
- Reconnect the vehicle battery and test the unit's functionality before fully reassembling the dashboard trim.



Figure 4.3: Before and After Installation. This image provides a visual comparison of the car's dashboard with the original radio and after the electrosmart head unit has been installed.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Basic Controls

- **Power On:** Turn the vehicle ignition to ACC or ON. The unit will power on automatically.
- **Power Off:** Turn the vehicle ignition to OFF. The unit will power off.
- **Volume Control:** Adjust volume using the touchscreen controls or steering wheel buttons (if configured).
- **Brightness:** Customize background brightness via settings for comfortable viewing day or night.

5.2. CarPlay & Android Auto Integration

Seamlessly integrate your smartphone for navigation, calls, music, and more. Connect your phone via Bluetooth for wireless CarPlay/Android Auto or use a USB cable for wired connection.

Wireless Apple Carplay & Android Auto/Mirrorlink



Figure 5.1: CarPlay and Android Auto Interface. This image displays the head unit running Apple CarPlay, with a separate phone showing the Android Auto interface, demonstrating seamless integration.

- **Wireless Connection:** Enable Bluetooth on your phone and pair it with the head unit. Follow on-screen prompts to activate CarPlay or Android Auto.
- **Wired Connection:** Connect your phone to the unit's USB port using a compatible cable.
- **Voice Commands:** Use Siri or Google Voice commands for hands-free operation.

5.3. GPS Navigation

The unit features built-in GPS supporting both online and offline navigation applications. Pre-installed apps like Google Maps, Waze, and Here WeGo provide real-time traffic updates and route guidance.

GPS Navigation

Our stereo comes with build-in GPS navigation module and supports online and offline navigation.



WiFi Connection

By connecting WiFi, you can install apps you need, watch online videos and more.



Figure 5.2: GPS Navigation and WiFi. This image shows the head unit displaying GPS navigation, highlighting support for various online and offline map applications, and indicating WiFi connectivity.

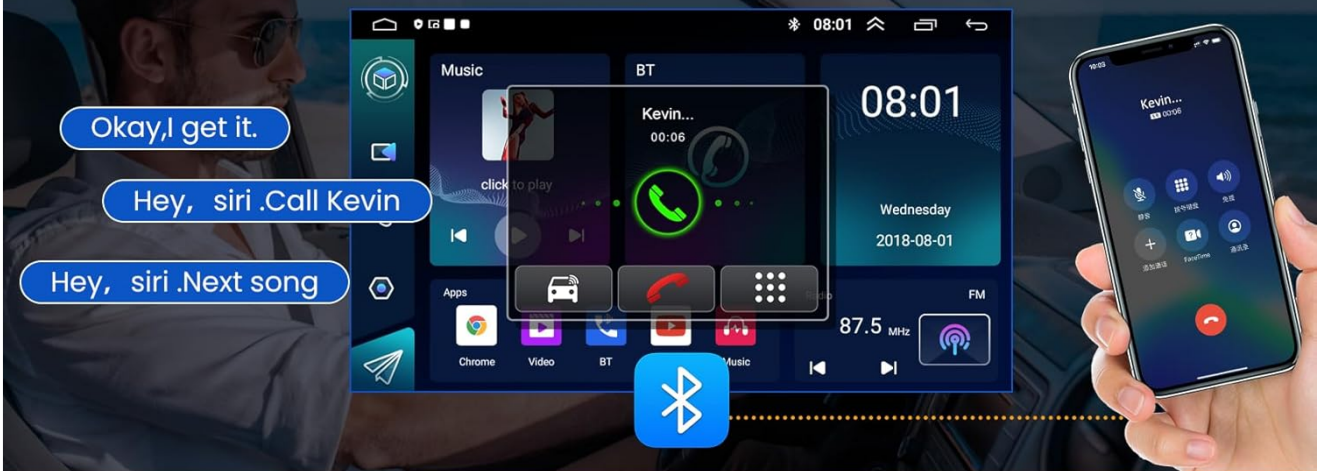
- **Online Navigation:** Requires a Wi-Fi connection (via hotspot or built-in Wi-Fi) to download maps and receive live traffic updates.
- **Offline Navigation:** Download maps in advance to use navigation without an internet connection.

5.4. Bluetooth Connectivity

Pair your phone via Bluetooth 5.2 for hands-free calling, music streaming, and voice navigation.

Bluetooth 5.2 Connection

Bluetooth 5.2 Connection supports hands-free callings, phonebook download and music playback.



FM Radio

FM Radio allows you to enjoy broadcasting, weather, and real-time traffic conditions at any time.



Figure 5.3: Bluetooth and FM Radio. This image illustrates the Bluetooth call and music streaming functions, as well as the FM radio interface on the head unit.

- **Pairing:** Go to the Bluetooth settings on the head unit and your phone. Select the unit's name to pair.
- **Hands-Free Calling:** Make and receive calls directly from the touchscreen or via voice commands.
- **Music Streaming:** Play audio from your phone through the car's speakers.

5.5. Steering Wheel Control (SWC)

Configure your vehicle's steering wheel buttons to control the head unit, allowing for safer operation without taking your hands off the wheel.

Backup Camera

The night images are still bright and clear, making reversing safer.



Steering Wheel Control

Through it you can control the functions you need by steering wheel, more convenient!



Figure 5.4: Steering Wheel Control Setup and Backup Camera. This image shows the interface for programming steering wheel controls and a view from the backup camera.

- **Setup:** Access the 'Steering Learn' or 'SWC Settings' menu in the unit's settings. Follow the on-screen instructions to assign functions to your steering wheel buttons.

5.6. FM/RDS Radio

Enjoy local radio broadcasts with FM/RDS functionality.

- **Tuning:** Use the touchscreen to scan for stations or manually tune to a specific frequency.
- **RDS:** Radio Data System displays station information (e.g., song title, artist) where available.

5.7. DSP/EQ Setting

Customize your audio experience with the built-in Digital Sound Processor (DSP) and Equalizer (EQ) settings.



Figure 5.5: DSP/EQ Settings. This image shows the graphical interface for adjusting sound equalization and selecting audio presets.

- **Equalizer:** Adjust frequency bands to tailor the sound to your preference.
- **Presets:** Select from various pre-defined sound modes (e.g., Pop, Rock, Jazz).

5.8. Backup Camera

Enhance driving safety with the included rear-view camera, providing a wider and clearer field of view when reversing.

- **Automatic Activation:** The camera view automatically displays on the screen when the vehicle is shifted into reverse gear.
- **Guidelines:** Dynamic parking guidelines may be displayed to assist with parking.
- **Night Vision:** The camera offers improved visibility in low-light conditions.

5.9. Wi-Fi Connection

Connect to a Wi-Fi network to access online features, download apps, and stream content.

- **Connecting:** Go to Wi-Fi settings, select an available network, and enter the password.
- **Applications:** Once connected, you can use the Google Play Store to download various applications like YouTube, TikTok, and Netflix.

6. MAINTENANCE

- **Cleaning the Screen:** Use a soft, lint-free cloth to gently wipe the touchscreen. Do not use abrasive cleaners or solvents.
- **Software Updates:** Periodically check for software updates to ensure optimal performance and access to new features. Updates can usually be found in the system settings or on the manufacturer's website.
- **Cable Connections:** Ensure all cables remain securely connected. Loose connections can lead to intermittent issues.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Unit does not power on	Incorrect wiring; Blown fuse; Loose power connection	Check power cable connections; Inspect vehicle fuses; Ensure proper grounding.
No sound	Speaker wires disconnected; Volume too low; Mute activated; Incorrect audio output settings	Check speaker wiring; Increase volume; Deactivate mute; Verify audio settings.
Steering Wheel Controls not working	Not configured; Incorrect wiring; CANBUS issue	Perform 'Steering Learn' calibration (Section 5.5); Verify CANBUS connection if applicable.
CarPlay/Android Auto not connecting	Bluetooth/USB connection issue; Phone software incompatibility; App not running	Ensure Bluetooth is on and paired; Try a different USB cable; Restart phone and head unit; Update phone OS.
3-second latency on calls	Bluetooth audio processing delay	This can be a common issue with some head units. A potential workaround is to use a secondary Bluetooth device for calls routed through the AUX input, if available, and switch audio sources.
Backup camera not displaying	Camera not connected; Reverse trigger wire not connected; Camera faulty	Check camera and reverse trigger wire connections; Ensure 'Not Mute on reverse' setting is enabled if audio cuts out.
GPS signal weak or inaccurate	GPS antenna placement; Obstructions; Antenna faulty	Ensure GPS antenna is placed in a clear, unobstructed location (e.g., dashboard); Check antenna connection.

8. SPECIFICATIONS

Feature	Specification
Brand	electrosmart
Model Name	RM
Operating System	Android
Display Size	9 inches
Display Type	LCD, Capacitive Touchscreen
Memory (RAM)	4GB
Storage (ROM)	64GB
Connectivity	Bluetooth 5.2, Wi-Fi, USB
Navigation	Built-in GPS (supports online/offline maps)
Audio Features	DSP/EQ Setting, Hi-Fi sound system
Radio	FM/RDS Radio
Compatibility	Toyota Avalon (2006-2010)
Item Weight	1.88 Kilograms

9. WARRANTY AND SUPPORT

Your electrosmart Car Radio Stereo is backed by a comprehensive warranty and dedicated customer support.

The figure consists of two side-by-side promotional images for electrosmart. The left image is a screenshot of a product page. At the top, the electroSMART logo is displayed. Below it, a product card shows a quantity of 1, an 'Add to Cart' button, and a 'Buy Now' button. A dashed box highlights the 'Sold by' information: 'shenzhenjuyoumikejiyo uxiangongsi'. Below this, it states 'Returns FREE 30-day refund/replacement' and 'Payment Secure transaction'. A blue callout bubble points to the seller name with the text 'Click \"Sold by Store Name\"'. The right image features the electroSMART logo at the top, followed by the text 'We can provide you:'. Below this is a photograph of a silver pickup truck. At the bottom, there are three icons: a headset for customer support, and two boxes representing warranty periods: '24 Months' and '30 Days', and a larger box representing '2 YEAR' warranty.

Figure 9.1: Warranty and Support Information. These images highlight the 24-month support, 30-day return policy, and 2-year warranty provided by electrosmart.

- **Warranty Period:** The product comes with a 2-year warranty from the date of purchase.
- **Return Policy:** Enjoy a 30-day return period for eligible purchases.
- **Customer Support:** For any questions regarding installation, operation, or troubleshooting, please contact electrosmart customer service. You can typically find contact information on the product's purchase page or the electrosmart brand store.
- **Professional Guidance:** We provide pre-sale information consultation and after-sales installation service guidance to ensure a positive experience.