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Roadstar RD9100N, RD9120VW, RD9200U

Roadstar RD9100N RD9120VW RD9200U TV Tuner and TV Antenna User Manual

Model Series: RD9100N, RD9120VW, RD9200U

Introduction | Safety Information | Package Contents | Setup | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Roadstar RD9100N, RD9120VW, or RD9200U TV Tuner and TV Antenna system. This product is designed to enhance your in-vehicle entertainment experience by providing access to digital television broadcasts. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

Always observe the following safety precautions to prevent injury or damage to the product:

- **Electrical Safety:** Ensure the vehicle's power is off before making any electrical connections. Incorrect wiring can cause damage to the unit or the vehicle's electrical system.
- **Installation Environment:** Install the unit in a dry, well-ventilated area away from direct sunlight, excessive heat, or moisture. Avoid placing it near heat sources or in areas where it could be exposed to water.
- **Professional Installation:** If you are unsure about any installation steps, it is recommended to seek professional assistance from a qualified car audio technician.
- **Driving Safety:** Do not operate the TV tuner or view television programs while driving. This can distract the driver and lead to accidents. Ensure all local laws and regulations regarding in-car video displays are followed.
- **Ventilation:** Do not block any ventilation openings on the tuner unit. Proper airflow is essential to prevent overheating.

3. Package Contents

Verify that all items are present in the package:

- Roadstar TV Tuner Module (e.g., Model RD9100TB as shown in image)

- Digital TV Antenna
- Power and A/V Output Cable Harness
- Antenna Input Cable
- User Manual (this document)



Figure 3.1: Roadstar TV Tuner and Digital TV Antenna components. This image displays the black Roadstar TV tuner module (labeled "MODEL NO.: RD9100TB"), the clear flat digital TV antenna with its black base, and the associated wiring harnesses including the antenna input cable and the multi-pin cable for connection to a head unit.

4. Setup and Installation

Follow these steps for proper installation of the TV tuner system:

4.1 Pre-Installation Checks

1. Ensure your vehicle's head unit or display has an available A/V input (RCA type, typically yellow for video, red/white for audio).
2. Identify a suitable mounting location for the TV tuner module. It should be secure, dry, and allow for proper ventilation. Common locations include under the seat, in the glove compartment, or in the trunk.
3. Plan the routing of all cables to avoid interference with vehicle operation and to ensure a neat installation.

4.2 Connecting the TV Tuner Module

1. **Power Connection:** Connect the power cable harness from the tuner module to your vehicle's electrical system.
    - Connect the **red wire** to a switched 12V accessory power source (ACC).
    - Connect the **yellow wire** to a constant 12V power source (B+).
    - Connect the **black wire** to a good vehicle ground point.
2. **A/V Output Connection:** Connect the A/V output cables (RCA connectors) from the tuner module to the A/V input of your vehicle's head unit or display.

    - Yellow RCA: Video Output
    - Red RCA: Right Audio Output
    - White RCA: Left Audio Output
3. **Antenna Connection:** Connect the digital TV antenna cable to the "ANT" input on the TV tuner module.
4. **Head Unit Connection:** Connect the multi-pin cable from the tuner module to the "TO HEAD UNIT" port on the tuner. This cable typically carries control signals and may also carry A/V signals depending on your specific head unit. Refer to your head unit's manual for specific input requirements.

4.3 Antenna Placement

Proper antenna placement is crucial for optimal reception. Consider the following:

- Mount the antenna on a non-metallic surface, typically on the inside of the windshield or rear window.
- Ensure the antenna has a clear line of sight to the outside, avoiding metallic obstructions or tinted areas that may contain metallic particles.
- Experiment with different placements to find the best reception in your typical driving areas.
- Secure the antenna firmly using its adhesive backing to prevent movement during driving.

5. Operating Instructions

5.1 Powering On/Off

The TV tuner will typically power on automatically when the vehicle's ignition is turned to the ACC or ON position, provided it is wired correctly. To turn off the tuner, simply turn off the vehicle's ignition.

5.2 Initial Channel Scan

1. With the tuner powered on and connected to your display, switch your head unit's input to the A/V input connected to the TV tuner.
2. Access the TV tuner's menu (usually via a remote control or a control interface on your head unit, if supported).
3. Navigate to the "Channel Scan" or "Auto Scan" option.
4. Initiate the scan. The tuner will search for available digital TV channels in your area. This process may take several minutes.
5. Once the scan is complete, the tuner will save the found channels.

5.3 Channel Selection

You can select channels using the tuner's remote control or through the integrated controls on your head unit. Use the channel up/down buttons to browse through saved channels.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the tuner module. Do not use liquid cleaners or abrasive materials.
- **Cable Inspection:** Periodically check all cables and connections for signs of wear or damage. Ensure they are securely connected.
- **Software Updates:** Check the Roadstar official website periodically for any available firmware updates for your specific model. Follow the instructions provided with the update carefully.

7. Troubleshooting

Problem	Possible Cause	Solution
No picture or sound	Incorrect A/V input selected on head unit; Loose power or A/V cables; Tuner not powered on.	Select correct A/V input; Check all cable connections; Verify power supply to the tuner.
Poor picture quality / No signal	Weak signal; Improper antenna placement; Antenna cable loose or damaged; No channels scanned.	Adjust antenna position; Rescan for channels; Check antenna cable connection; Ensure you are in an area with digital TV broadcast coverage.
Tuner does not respond to remote control	Remote batteries are dead; Obstruction between remote and IR receiver; IR receiver not connected.	Replace remote batteries; Ensure clear path to IR receiver; Check IR receiver connection.

8. Specifications

- **Model Series:** RD9100N, RD9120VW, RD9200U (Specific tuner model may vary, e.g., RD9100TB)
- **Input Voltage:** DC 12V (Vehicle power supply)
- **TV System:** Digital Terrestrial Television (DVB-T/DVB-T2 compatible, depending on region)
- **Video Output:** RCA Composite Video
- **Audio Output:** RCA Stereo Audio (Left/Right)
- **Antenna Input:** Standard Car Antenna Jack
- **Operating Temperature:** -10°C to +60°C
- **Dimensions (Tuner Module):** *(Approximate, based on typical car tuner size)*120mm x 80mm x 25mm (L x W x H)

9. Warranty and Support

Roadstar products are designed for reliability and performance. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Roadstar website. Keep your purchase receipt as proof of purchase for warranty claims.
For further assistance, you may contact Roadstar customer service through the contact information provided on their official website.

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