POBADY VAN008-US

POBADY Car GPS Antenna (Model VAN008-US) Instruction Manual

MCX Male Plug Adapter with Magnetic Base

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your POBADY Car GPS Antenna. This antenna is designed to enhance GPS signal reception for various in-car navigation systems, GPS receivers, and car DVRs. It features a magnetic base for easy mounting and an MCX male plug for connection.

2. Safety Information

- Ensure the antenna is securely mounted to prevent it from becoming a projectile during sudden stops or accidents.
- Do not obstruct the driver's view or interfere with vehicle controls when positioning the antenna.
- Keep the antenna cable away from moving parts or areas that generate excessive heat.
- Avoid exposing the connector to moisture or extreme temperatures beyond the specified operating range.
- Do not attempt to disassemble or modify the antenna. This may void the warranty and cause damage.

3. Package Contents

The package includes:

- 1 x POBADY Car GPS Antenna with MCX Male Plug Adapter and 3-meter RG174 Cable

4. Product Features

- **Magnetic Base:** Allows for easy and secure attachment to any metal surface within your vehicle.
- **MCX Male Plug Adapter:** Ensures compatibility with devices requiring an MCX connection.

- **3-Meter RG174 Cable:** Provides ample length for flexible placement within your vehicle.
- **Water Resistance:** Designed to withstand various environmental conditions.
- **Strong GPS Signal Reception:** Optimized for reliable 1575.42MHz GPS signal acquisition.
- **Wide Compatibility:** Suitable for car GPS navigation systems, GPS receivers, and car DVRs.

5. Setup and Installation

Follow these steps to install your POBADY Car GPS Antenna:

1. **Choose a Mounting Location:** Select a flat, metal surface inside your vehicle, such as the dashboard, rear deck, or roof (if external mounting is desired and safe). Ensure the location provides a clear view of the sky for optimal GPS signal reception.
2. **Mount the Antenna:** Place the magnetic base of the antenna firmly onto the chosen metal surface. The magnetic base will secure the antenna in place.
3. **Route the Cable:** Carefully route the 3-meter RG174 cable to your GPS device, ensuring it does not interfere with driving controls, airbags, or other vehicle components. Avoid sharp bends or pinching the cable.
4. **Connect the MCX Plug:** Insert the MCX male plug adapter into the corresponding MCX female port on your GPS navigation system, receiver, or car DVR. Ensure a snug and secure connection.



Image: The POBADY Car GPS Antenna shown with its dimensions (48mm x 36mm x 16mm) and typical placement on a car dashboard for optimal signal reception.



Image: A close-up view of the MCX Male Plug Adapter, which connects the antenna to your GPS device.

6. Operating Instructions

Once the POBADY Car GPS Antenna is properly installed and connected to your GPS device, it will automatically begin receiving GPS signals when the device is powered on. The antenna operates at a center frequency of 1575.42MHz and requires a 3.0V operating voltage, typically supplied by the connected GPS unit.

- Ensure your GPS device is configured to use an external antenna, if applicable. Refer to your GPS device's manual for specific settings.
- For best performance, ensure the antenna has an unobstructed view of the sky.

7. Maintenance

To ensure the longevity and optimal performance of your GPS antenna, follow these maintenance guidelines:

- **Cleaning:** Periodically wipe the antenna and cable with a soft, damp cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Regularly check the cable for any signs of wear, cuts, or damage. Ensure the cable is

not kinked or pinched, as this can affect signal integrity. The cable and connector are designed to withstand a tensile load of 19.6N (2kg) for five seconds without damage.

- **Connection Check:** Ensure the MCX plug remains securely connected to your GPS device. A loose connection can lead to intermittent signal loss.
- **Magnetic Base:** Verify that the magnetic base is still firmly attached to its mounting surface.

8. Troubleshooting

Problem	Possible Cause	Solution
No GPS signal or weak signal	• Antenna not positioned correctly • Obstruction blocking sky view • Loose connection • Faulty GPS device port	• Relocate the antenna to a position with a clearer view of the sky. • Ensure no metal objects or tinted windows are directly above the antenna. • Check that the MCX plug is securely connected. • Test with another GPS device if possible to rule out a device issue.
Antenna not staying in place	• Mounting surface is not metal • Surface is dirty or uneven	• Ensure the mounting surface is made of a ferromagnetic metal. • Clean the mounting surface to ensure good contact for the magnetic base. • Choose a flat, smooth surface.
Cable damage	• Cable pinched or cut • Excessive tension on cable	• Inspect the cable for visible damage. If damaged, the antenna may need replacement. • Reroute the cable to avoid stress points.

9. Specifications

Feature	Detail
Model Number	VAN008-US
Center Frequency	1575.42MHz
Frequency Bandwidth	6 MHz
Output Impedance	50 Ω
Output VSWR	≦1.5
Gain	28 dBi
Operation Voltage	3.0V
Connector Type	MCX Male Plug
Cable Type	RG174

Feature	Detail
Cable Length	3 meters (9.84 ft)
Antenna Dimensions (L x W x H)	48.5mm x 37mm x 15mm (approx. 1.91 x 1.46 x 0.59 inches)
Weight	80g (approx. 2.82 oz)
Storage Temperature	-40 °C to 90 °C (-40 °F to 194 °F)



Image: The antenna cable coiled, indicating its 3-meter (9.84 ft) length.



Image: The magnetic base of the POBADY Car GPS Antenna with its coiled cable, ready for installation.

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