EinParts EPP050

EINPARTS EPP050 Rear View Camera User Manual

Model: EPP050

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your EINPARTS EPP050 Rear View Camera. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Product Overview

The EINPARTS EPP050 is a rear-mounted camera designed to assist with vehicle maneuvering and parking. It features a wide viewing angle and robust construction for reliable performance.

Package Contents

Upon opening the package, verify that all components are present:

- EINPARTS EPP050 Rear View Camera Unit
- Video Cable (RCA type)
- Power Cable
- Mounting Hardware (screws, adhesive pad - typically included)



Image 1: EINPARTS EPP050 Rear View Camera with its retail packaging.



Image 2: The camera unit shown with its video (yellow RCA) and power cables.



Image 3: A complete view of the camera, video cable, and power cable, indicating all main components.

Specifications

Feature	Detail
Model	EPP050
Brand	EinParts
Mounting Side	Rear
Power Consumption	6 W
Viewing Angle	170°
Video Resolution	640x480 pixels
Current Consumption	160 mA

Operating Temperature Range	-20°C to +60°C
Protection Type (IP Code)	IP67

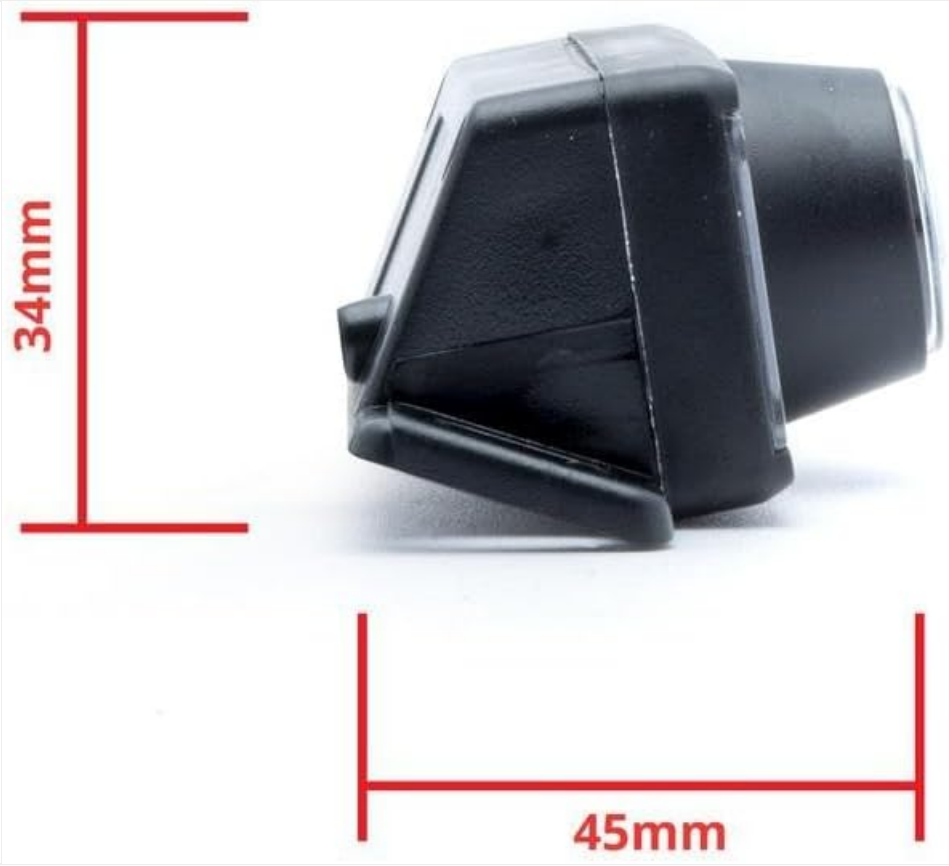


Image 4: Side view of the camera showing a depth of 45mm and height of 34mm.



Image 5: Front view of the camera showing a width of 87mm.

Installation Guide

Proper installation is crucial for the optimal performance of your rear view camera. It is recommended that installation be

performed by a qualified technician if you are not familiar with automotive electrical systems.

Tools and Materials Required (Not Included):

- Drill (if permanent mounting is desired)
- Screwdriver set
- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Multimeter (for testing power)
- Cable ties

Installation Steps:

1. **Choose a Mounting Location:** Select a suitable location at the rear of your vehicle, typically above the license plate or near the trunk handle. Ensure the camera has a clear, unobstructed view. The camera is designed for rear mounting.
2. **Mount the Camera:** Secure the camera using the provided mounting hardware. If drilling is required, ensure no existing wiring or components are damaged.
3. **Connect Power:**
    - Locate the vehicle's reverse light wiring. This will provide power to the camera only when the vehicle is in reverse.
    - Connect the red wire of the camera's power cable to the positive (+) wire of the reverse light.
    - Connect the black wire of the camera's power cable to a suitable ground point on the vehicle chassis.
    - Ensure all connections are secure and insulated to prevent short circuits.
4. **Connect Video Cable:**
    - Route the video cable (yellow RCA connector) from the camera to the location of your display unit (e.g., car stereo with screen, dedicated monitor).
    - Connect one end of the video cable to the camera's video output.
    - Connect the other end of the video cable to the video input (usually labeled "REAR CAM" or "VIDEO IN") on your display unit.
    - Some video cables may have an additional red wire integrated. This wire is often used to trigger the display unit to switch to the camera input when reverse gear is engaged. Connect this red wire to the reverse light positive (+) wire at the rear, and the other end to the "REVERSE TRIGGER" input on your display unit.
5. **Test the System:**
    - With the vehicle in a safe, open area, turn on the ignition (do not start the engine unless necessary for power).
    - Engage reverse gear. The camera image should appear on your display unit.
    - Adjust the camera angle if necessary to achieve the desired view.
6. **Secure Wiring:** Use cable ties to neatly secure all wiring, preventing it from interfering with moving parts or being damaged.



Image 6: The camera unit with its power (red/black) and video (yellow RCA) connections, ready for installation.

Operating Instructions

The EINPARTS EPP050 Rear View Camera operates automatically in conjunction with your vehicle's reverse gear and compatible display unit.

1. **Start Vehicle:** Turn on your vehicle's ignition.
2. **Engage Reverse Gear:** Shift your vehicle into reverse (R).
3. **View Display:** The image from the rear view camera will automatically appear on your connected display screen.
4. **Disengage Reverse Gear:** When you shift out of reverse, the display will typically return to its previous state (e.g., radio, navigation).

Important: The rear view camera is an aid for safe maneuvering and parking. Always check your surroundings visually and use your mirrors in addition to the camera display.

Maintenance

To ensure the longevity and clear image quality of your EINPARTS EPP050 Rear View Camera, follow these simple maintenance guidelines:

- **Lens Cleaning:** Regularly clean the camera lens with a soft, damp cloth. Avoid abrasive cleaners or materials that could scratch the lens.
- **Housing Cleaning:** Wipe down the camera housing as needed to remove dirt and debris.
- **Cable Inspection:** Periodically check all cables and connections for signs of wear, damage, or corrosion. Ensure they remain securely fastened.
- **Avoid High-Pressure Washing:** While the camera is IP67 rated for water and dust resistance, avoid directing high-pressure water jets directly at the camera, as this could potentially compromise its seals over time.

Troubleshooting

If you encounter issues with your EINPARTS EPP050 Rear View Camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on display when in reverse.	• No power to camera. • Loose or incorrect video cable connection. • Display unit not switching to camera input. • Faulty camera or display unit.	• Check power connections to reverse light and ground. Use a multimeter to verify power. • Ensure video cable (RCA) is securely connected at both ends. • Verify the reverse trigger wire (if used) is correctly connected to the display unit. • Test with another display or camera if possible to isolate the fault.
Image is distorted, flickering, or poor quality.	• Loose video connection. • Interference from other electrical components. • Damaged video cable. • Dirty camera lens.	• Check video cable connections. • Ensure video cable is routed away from high-current wires. • Inspect video cable for damage; replace if necessary. • Clean the camera lens.
Camera works intermittently.	• Loose power or ground connection. • Intermittent reverse light power.	• Check all power and ground connections for tightness. • Verify reverse light power is consistent when engaged.

Warranty and Support

Specific warranty terms for the EINPARTS EPP050 Rear View Camera may vary by region and retailer. Please refer to the warranty information provided at the time of purchase or contact your seller for details.

For technical support or further assistance, please contact the retailer from whom you purchased the product or visit the official EinParts website for contact information.

Manufacturer: EINPARTS

Model: EPP050

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