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SOUND OFF TB-01D-4P

SOUND OFF (TB-01D-4P) Eclipse AVN111M Rear Camera External Navigation Conversion Kit User Manual

Model: TB-01D-4P

1. Introduction

This manual provides comprehensive instructions for the installation and operation of the SOUND OFF (TB-01D-4P) Rear Camera External Navigation Conversion Kit. This kit allows you to connect an original rear camera, specifically a dealer-option camera or an Eclipse camera (such as the AVN111M), to a commercial navigation system.
The compact design of this conversion kit simplifies installation, allowing for flexible placement within your vehicle.

Compatibility Note: Dealer Option vs. Manufacturer Option

This product is designed for use with **dealer-option cameras** or specific **Eclipse cameras**. It is not intended for manufacturer-option cameras.

- **Dealer Option:** These are products installed by the car dealer. The car navigation system typically has its model number listed on the front panel or in its instruction manual.
- **Manufacturer Option:** These products are installed at the factory during vehicle manufacturing. The navigation system's front panel usually does not display the unit's model number. For manufacturer options, verify compatibility by checking your car's model, year, and specific vehicle information.

Always confirm your vehicle's camera type and navigation system compatibility before installation. Refer to your vehicle's invoice or certificate for model and year details.

2. Package Contents

The SOUND OFF (TB-01D-4P) Rear Camera External Navigation Conversion Kit includes the following components:

- Conversion Harness with White Connector and RCA Output
- Integrated Power and Signal Wires

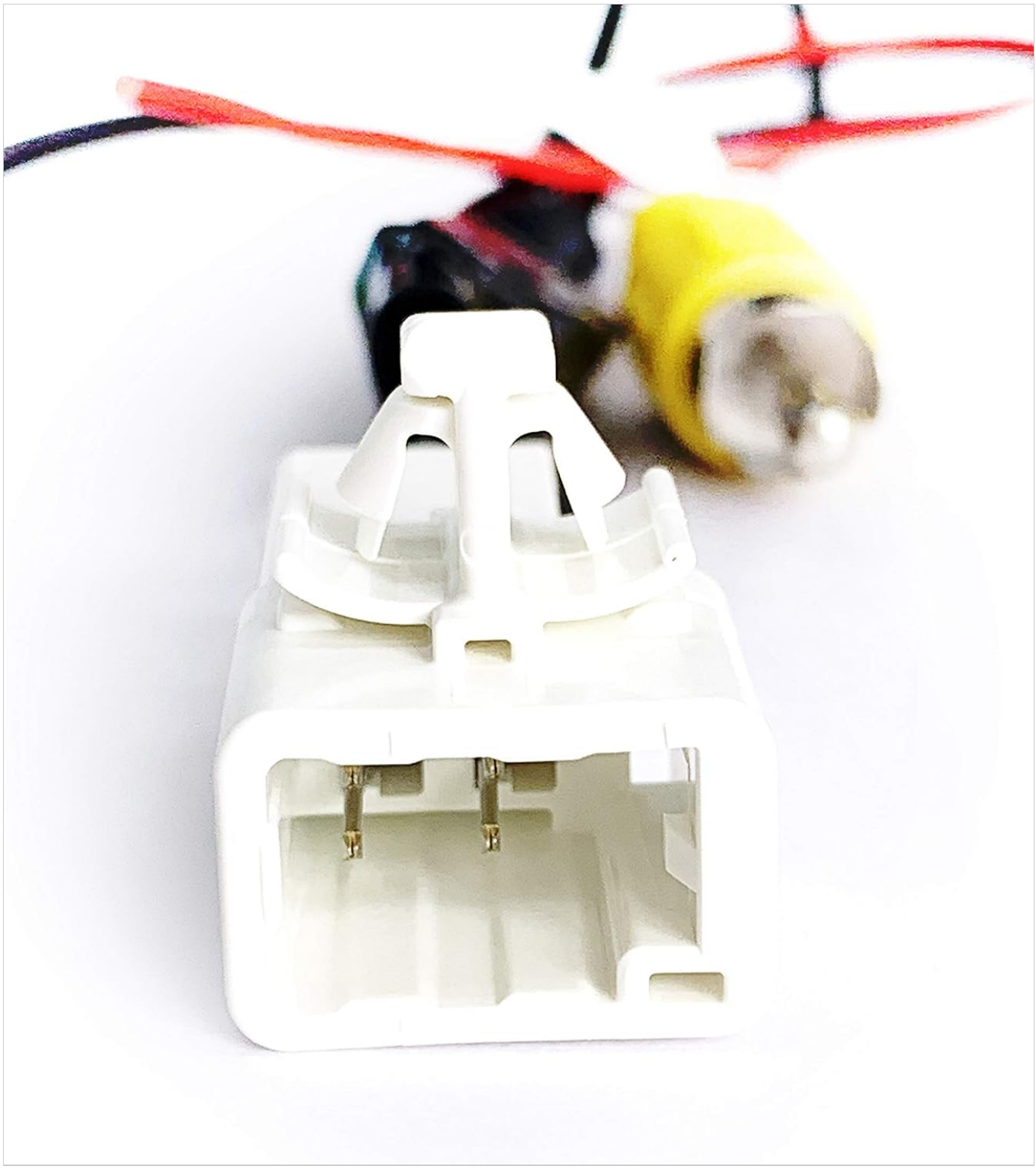


Figure 2.1: The conversion harness featuring a white multi-pin connector designed to interface with the vehicle's existing camera wiring, and a yellow RCA connector for video output to the navigation unit. Red and black wires for power are also visible.



Figure 2.2: A detailed view of the yellow RCA connector, which carries the video signal from the rear camera to the navigation system. The black and red power wires are bundled alongside it.

3. Safety Information

Please read and understand all safety instructions before installing or using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Professional Installation Recommended:** If you are not experienced with car electronics installation, it is highly recommended to have this product installed by a qualified professional.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical installation to prevent short circuits and electrical hazards.

- **Correct Wiring:** Ensure all connections are made correctly according to the wiring diagram. Incorrect wiring can damage the product, vehicle electronics, or cause fire.
- **Secure Connections:** All connections must be secure to prevent accidental disconnection during vehicle operation.
- **Avoid Obstruction:** Route cables carefully to avoid interfering with vehicle controls, airbags, or other safety features. Do not place cables where they can be pinched or damaged.
- **Voltage Compatibility:** This product is designed for 12V DC automotive systems. Do not connect to other voltage sources.

4. Setup and Installation

Follow these steps to install the rear camera conversion kit. Ensure the vehicle's battery is disconnected before starting.

1. **Access Vehicle Wiring:** Carefully remove the necessary trim panels and components to gain access to the rear camera wiring harness and the back of your commercial navigation unit.
2. **Identify Camera Connector:** Locate the original rear camera connector in your vehicle. This kit is designed to interface with specific dealer-option or Eclipse camera connectors.
3. **Connect Conversion Harness:** Plug the white multi-pin connector of the conversion kit into the vehicle's original rear camera harness. Ensure it clicks securely into place.
4. **Connect Power Wires:**
    - Connect the **red wire** from the conversion kit to a **12V reverse signal source** (e.g., the vehicle's reverse light circuit or a dedicated reverse signal wire from the navigation unit). This signal typically triggers the navigation unit to display the camera feed when reverse gear is engaged.
    - Connect the **black wire** from the conversion kit to a reliable **ground point** (chassis ground).
5. **Connect Video Output:** Plug the yellow RCA connector from the conversion kit into the **rear camera video input** port on your commercial navigation system. This port is typically labeled "CAMERA IN" or "REAR CAM".
6. **Secure Wiring:** Route all cables neatly and securely, away from moving parts, heat sources, and sharp edges. Use cable ties if necessary.
7. **Reconnect Battery:** Once all connections are made and secured, reconnect the vehicle's negative battery terminal.
8. **Test System:** Turn on your vehicle and engage reverse gear to test the rear camera display on your navigation unit.

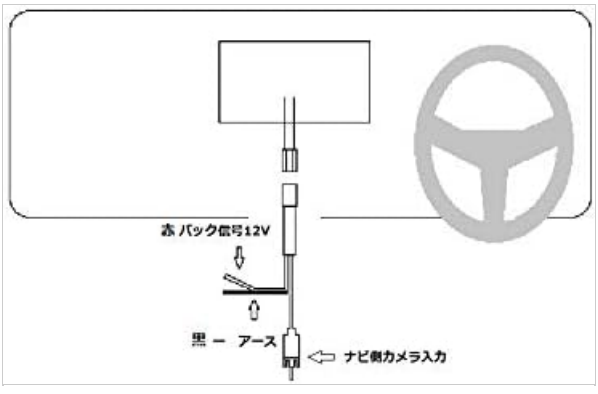


Figure 4.1: Wiring diagram illustrating the connection points. The conversion kit connects to the vehicle's existing camera wiring and provides a 12V reverse signal input (red wire), a ground connection (black wire), and an RCA video output to the navigation unit's camera input.

5. Operation

Once the conversion kit is correctly installed, operating your rear camera with the commercial navigation system is

straightforward:

- **Automatic Activation:** When you shift your vehicle into reverse gear, the navigation system should automatically switch to display the rear camera feed.
- **Manual Activation (if supported):** Some navigation systems may offer a manual option to view the rear camera feed even when not in reverse. Refer to your navigation system's user manual for this feature.
- **Image Quality:** The image quality will depend on the original rear camera and the display capabilities of your navigation unit.

Always use the rear camera as an aid and not as a sole means of reversing. Always check your surroundings visually before maneuvering your vehicle.

6. Maintenance

The SOUND OFF conversion kit requires minimal maintenance. Follow these guidelines to ensure optimal performance:

- **Regular Inspection:** Periodically check all wiring connections to ensure they remain secure and free from corrosion or damage.
- **Cleanliness:** Keep the area around the installed components clean and free from dust or debris.
- **Avoid Harsh Chemicals:** Do not use harsh cleaning agents or solvents near the product, as they may damage the wiring or connectors.
- **Environmental Protection:** Ensure the kit is installed in a location protected from extreme temperatures and moisture, as per standard automotive electronics practices.

7. Troubleshooting

If you encounter issues with your rear camera conversion kit, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No image on navigation screen when in reverse.	• Loose or incorrect wiring connections. • No 12V reverse signal. • Incorrect navigation unit input selected. • Faulty original camera or navigation unit.	• Check all connections, especially the white multi-pin connector, RCA video, 12V reverse signal (red wire), and ground (black wire). • Verify the 12V reverse signal is present when the vehicle is in reverse. • Ensure your navigation unit is set to the correct camera input. • Test the original camera and navigation unit independently if possible.
Poor image quality or flickering.	• Loose video connection. • Electrical interference. • Damaged video cable.	• Ensure the yellow RCA connector is fully seated. • Check for proper grounding. Reroute cables away from power sources if interference is suspected. • Inspect the video cable for any visible damage.
Navigation unit does not switch to camera view automatically.	• Incorrect or missing 12V reverse signal connection to the conversion kit or navigation unit. • Navigation unit settings.	• Verify the red wire is correctly connected to a reliable 12V reverse signal source. • Check your navigation system's settings for camera activation options.

If the problem persists after trying these solutions, contact customer support or consult a professional installer.

8. Specifications

Feature	Detail
Model Number	TB-01D-4P (OJ-UC2M-4Q6R)
Compatibility	Eclipse AVN111M, Dealer-option rear cameras
Input	Vehicle's original rear camera signal
Output	RCA Video Output for commercial navigation systems
Power Requirement	12V DC (from vehicle's reverse signal and ground)
Package Dimensions	14.8 x 11 x 1.8 cm
Item Weight	24 g
Other Features	Compact design, Wireless (refers to display features, not the kit itself)

9. Warranty and Support

Warranty Information

This SOUND OFF product comes with a**1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, accident, misuse, abuse, natural disaster, or unauthorized modification.
Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact your retailer or the SOUND OFF customer support channel. Provide your product model number (TB-01D-4P) and a detailed description of the issue when contacting support.

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