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NAV-TV NTV-KIT424

NAV-TV Rear Camera Interface NTV-KIT424 User Manual

For Dodge Ram and Jeep Grand Cherokee with 8.4" Uconnect Screen

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the NAV-TV NTV-KIT424 Rear Camera Interface. This device allows for the integration of an aftermarket rear-view camera with your vehicle's factory 8.4-inch Uconnect display, enhancing safety and convenience during reversing maneuvers. Please read this manual thoroughly before installation and use.

Safety Information

Important Safety Instructions:

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits and electrical damage.
- Ensure all connections are secure and properly insulated to avoid interference or malfunction.
- Installation should be performed by a qualified professional if you are not familiar with automotive electrical systems.
- Do not obstruct airbags or other safety features during installation.
- This interface is designed to assist with reversing; it is not a substitute for safe driving practices and proper use of mirrors.

Package Contents

Verify that all components are present before proceeding with installation:

- NAV-TV NTV-KIT424 Interface Module
- Wiring Harnesses (specific to vehicle model)
- Installation Guide (this document)
- *Note: Rear-view camera is sold separately and is not included with this interface kit.*

Setup and Installation

The NAV-TV NTV-KIT424 is designed for integration with Dodge Ram and Jeep Grand Cherokee vehicles equipped with the 8.4-inch Uconnect factory radio. Professional installation is recommended.

Compatibility Check

Ensure your vehicle is a Dodge Ram or Jeep Grand Cherokee with an 8.4-inch Uconnect touch screen. This interface is specifically designed for these models.

Installation Steps (General Overview)

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and turn off the ignition. Disconnect the negative terminal of the vehicle's battery.
2. **Access Radio:** Carefully remove the necessary trim panels to gain access to the back of the factory 8.4-inch Uconnect radio. Refer to your vehicle's service manual for specific panel removal instructions.
3. **Connect Interface:** Disconnect the factory wiring harness from the back of the Uconnect radio. Connect the provided NAV-TV wiring harness in-line with the factory harness and the radio. The interface module will typically connect to this new harness.
4. **Camera Connection:** Connect the aftermarket rear-view camera's RCA video output cable to the designated RCA input on the NAV-TV interface module. Ensure a secure connection.
5. **Power and Ground:** Connect the power and ground wires of the interface module as per the detailed wiring diagram provided with the kit. Typically, power is sourced from a switched 12V supply, and ground is connected to a chassis ground point.
6. **Test Connections:** Before reassembling the dashboard, temporarily reconnect the vehicle's battery and test the camera functionality. Shift the vehicle into reverse to verify the camera image appears on the Uconnect screen.
7. **Secure Components:** Once confirmed operational, secure the NAV-TV interface module in a safe location behind the dashboard, away from moving parts or heat sources. Reassemble all removed trim panels.
8. **Final Check:** Reconnect the battery permanently and perform a final functional check.

Note: Specific wiring diagrams and detailed instructions are included with your NAV-TV NTV-KIT424 kit. Always refer to those for precise connections for your vehicle model.



Image: The NAV-TV NTV-KIT424 Rear Camera Interface module. This image displays the compact design of the interface unit, which connects to the vehicle's existing wiring to enable rear camera functionality on the factory Uconnect screen.

Operating Instructions

Once the NAV-TV NTV-KIT424 interface is correctly installed and a compatible rear-view camera is connected, operation is automatic and seamless.

- **Automatic Activation:** When the vehicle's transmission is shifted into reverse, the NAV-TV interface automatically switches the 8.4-inch Uconnect screen to display the rear-view camera feed.
- **Return to Previous Screen:** Shifting the transmission out of reverse will automatically return the Uconnect screen to its previous display (e.g., radio, navigation).
- **Image Quality:** The quality of the displayed image is dependent on the resolution and specifications of the aftermarket camera connected to the interface.

Maintenance

The NAV-TV NTV-KIT424 Rear Camera Interface is designed for maintenance-free operation. No user-serviceable parts are inside the module.

- **Cleaning:** Keep the interface module and its connections free from dust and moisture. If cleaning is necessary, use a dry, soft cloth. Do not use liquid cleaners.
- **Inspections:** Periodically check the wiring connections for any signs of wear, corrosion, or looseness, especially if you experience intermittent issues.

- **Software Updates:** Any potential firmware updates for the interface would typically be performed by a qualified installer or NAV-TV service center. Do not attempt to update firmware yourself unless specifically instructed by NAV-TV support.

Troubleshooting

If you encounter issues with your NAV-TV NTV-KIT424 interface, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No camera image when in reverse.	Incorrect wiring connections. Faulty camera. Interface not receiving power. Vehicle not in reverse or reverse signal not detected.	Verify all wiring connections according to the installation diagram. Test the camera directly if possible. Check power and ground connections to the interface module. Ensure the vehicle is fully in reverse.
Distorted or flickering image.	Loose video connection (RCA). Electrical interference. Faulty camera or video cable.	Secure all RCA connections. Ensure power and video cables are routed away from high-current wires. Test with a different camera or video cable if available.
Uconnect screen does not return to normal display.	Interface stuck in camera mode. Incorrect reverse signal wiring.	Cycle vehicle ignition. Verify reverse signal wiring is correct and not constantly active.

If these steps do not resolve the issue, contact NAV-TV technical support or a qualified installer for further assistance.

Specifications

Feature	Detail
Brand	NAV-TV
Model Number	NTV-KIT424
Compatible Vehicles	Dodge Ram, Jeep Grand Cherokee (with 8.4" Uconnect Screen)
Screen Size Compatibility	8.4 Inches (Uconnect)
Connector Type	RCA (for camera input)
Installation Type	In-line harness integration
UPC	616909357710
ASIN	B00DB68XDQ

Warranty and Support

Warranty Information:
Specific warranty terms and conditions for the NAV-TV NTV-KIT424 are provided by NAV-TV or your authorized reseller at the time of purchase. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the documentation included with your product or visit the official NAV-TV website.

Technical Support:
For technical assistance, installation questions, or troubleshooting beyond the scope of this manual, please contact NAV-TV customer support directly. You may find contact information on the official NAV-TV website or through your product reseller.

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