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› ASC Audio 16-Pin Aftermarket Backup Camera Harness for Toyota/Scion OEM Radios

ASC Audio 16-Pin Wire Harness

ASC Audio 16-Pin Aftermarket Backup Camera Harness Instruction Manual

Model: 16-Pin Wire Harness

INTRODUCTION

This manual provides instructions for installing and using the ASC Audio 16-Pin Aftermarket Backup Camera Harness. This harness is designed to integrate an aftermarket backup camera with specific Toyota and Scion factory OEM display or navigation radios. It allows the video signal from an aftermarket camera to be displayed on the factory screen, provided the radio has a dedicated backup camera input feature.

PRODUCT OVERVIEW



Image of the ASC Audio 16-Pin Aftermarket Backup Camera Harness. The harness features two white 16-pin connectors, a yellow RCA video input jack, and exposed red and black wires for power and ground connections. The main wiring is wrapped in black electrical tape.

The harness consists of a 16-pin connector designed to interface with the factory radio, a yellow RCA input for the aftermarket camera's video signal, and additional wires for power and ground connections. It facilitates the connection without modifying the vehicle's original wiring.

SETUP AND INSTALLATION

Important: Installation should be performed by a qualified professional or individuals with experience in automotive electrical systems. Disconnect the vehicle's battery before beginning installation to prevent electrical shorts or damage.

1. **Access the Factory Radio:** Carefully remove the necessary trim panels and components to gain access to the rear of your vehicle's factory OEM display or navigation radio. Refer to your vehicle's service manual for specific instructions on radio removal.

2. **Locate the 16-Pin Connector:** Identify the corresponding 16-pin connector on the back of your factory radio. This harness is designed to plug directly into this port.
3. **Connect the Harness:** Plug the ASC Audio 16-Pin Aftermarket Backup Camera Harness into the designated 16-pin port on the factory radio. Ensure a secure connection.
4. **Connect Aftermarket Camera Video:** Connect the yellow RCA video output cable from your aftermarket backup camera to the yellow RCA input jack on the ASC Audio harness.
5. **Connect Aftermarket Camera Power:** This harness **does not** provide a 12-volt power wire for the aftermarket camera. You must source 12-volt power and ground for your aftermarket camera from an appropriate location in the vehicle's electrical system. Common sources include the reverse light circuit (for activation when in reverse) or a switched 12V accessory wire. Consult your camera's instruction manual for its specific power requirements.
6. **Secure Wiring:** Route and secure all wiring to prevent pinching, chafing, or interference with moving parts.
7. **Reconnect Battery and Test:** Reconnect the vehicle's battery. Turn on the vehicle and shift into reverse to test the camera functionality. The aftermarket camera's image should appear on the factory radio display.

Installation Demonstration Video

Your browser does not support the video tag.

Video demonstrating the installation process of a similar backup camera harness. This video provides a visual guide to connecting the harness to a factory radio and an aftermarket camera. (Note: The product shown in the video may be from a different brand, but the connection principles are generally applicable.)

OPERATING INSTRUCTIONS

Once correctly installed, the aftermarket backup camera will automatically activate and display its video feed on your factory OEM radio screen when the vehicle is shifted into reverse. No additional user input is typically required for operation.

MAINTENANCE

The ASC Audio 16-Pin Aftermarket Backup Camera Harness requires minimal maintenance. Periodically inspect the connections to ensure they remain secure and free from corrosion or damage. Ensure all wiring is properly secured and not exposed to excessive heat, moisture, or physical stress.

TROUBLESHOOTING

- **No Image on Screen:**
 - Verify all harness connections to the factory radio are secure.
 - Confirm the aftermarket camera is receiving proper 12-volt power and ground.
 - Check the RCA video connection between the camera and the harness.
 - Ensure your factory radio is a display or navigation model with a backup camera input feature.
- **Distorted or Flickering Image:**
 - Inspect the RCA video cable for damage or loose connections.
 - Ensure the camera's power supply is stable and free from electrical interference.
 - Test with a different aftermarket camera if possible to rule out camera malfunction.
- **Camera Not Activating in Reverse:**
 - Confirm the aftermarket camera's power wire is correctly connected to a reverse light trigger or a switched 12V source that activates when the vehicle is in reverse.
 - Verify the factory radio's settings for backup camera activation, if applicable.

SPECIFICATIONS

- **Connector Type:** 16 Pin
- **Compatibility:** Designed for specific Toyota and Scion factory OEM display/navigation radios with backup camera input.
- **Video Input:** RCA (for aftermarket camera)
- **Power Output:** None (aftermarket camera requires external 12V power source)
- **Package Dimensions:** 8.5 x 5.5 x 0.5 inches
- **Item Weight:** 2.39 ounces (0.07 Kilograms)

COMPATIBLE VEHICLES

This harness is compatible with factory radios that have a display screen or navigation and a backup camera input feature. Aftermarket cameras will require an RCA video plug to work with this harness. Compatibility may extend to other vehicles if the connector matches the product image.

SCION Models:

- Scion FRS: 2013-2015
- Scion iQ: 2014-2015
- Scion tC: 2014-2015
- Scion xB: 2014-2015
- Scion xD: 2014-2014

TOYOTA Models:

- 4-Runner (without a factory amp): 2012-2013
- Avalon: 2013-2014
- Camry: 2012-2013
- Highlander: 2013
- Prius: 2012-2015
- Prius PHV: 2012-2015
- Prius V: 2012-2014
- Rav-4: 2013
- Sequoia: 2013
- Tacoma (with NAV): 2012-2013
- Venza: 2013-2014

WARRANTY AND SUPPORT

Specific warranty information for the ASC Audio 16-Pin Aftermarket Backup Camera Harness is not provided in the available product details. For warranty claims or technical support, please refer to the retailer or manufacturer's official contact channels.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question