Pioneer AVH-221EX

Pioneer Multimedia DVD Receiver

Model: AVH-221EX

Brand: Pioneer

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Pioneer AVH-221EX Multimedia DVD Receiver. This double-DIN unit features a 6.2" WVGA clear resistive display, built-in Bluetooth, and versatile media playback options, designed to enhance your in-car entertainment experience.

Package Contents

Please verify that all items listed below are included in your package:

- Pioneer AVH-221EX DVD Receiver with fixed 6.2" Touchscreen Monitor
- Wireless Remote Control
- Microphone with mounting bracket (attached 13' cable terminated by a right-angle 2.5mm connector)
- Wiring Harness
- 5' USB Extension Cable
- Two-sided Tape
- 6 Pan-head ISO screws (M5 x 9mm)
- 6 Flat-head ISO screws (M5 x 9mm)
- Quick Start Guide
- Installation Manual
- Owner's Manual

Product Features

The Pioneer AVH-221EX offers a range of features for an enhanced audio and visual experience:

- 6.2" WVGA Clear Resistive Touch Screen for intuitive control.
- 13-band Graphic Equalizer (GEQ) and Time Alignment for precise audio customization.
- Single Rear USB port for digital media playback and device charging.

- Rear AUX-IN (Audio & Video) for connecting external devices.
- 3 Pre-Outs (2V) for expanding your audio system with external amplifiers.
- Built-in Bluetooth for hands-free calling and audio streaming.

Setup and Installation

Proper installation is crucial for optimal performance and safety. It is highly recommended to have this unit installed by a qualified professional. Refer to the included **Installation Manual** for detailed wiring diagrams and mounting instructions specific to your vehicle.
Key connection points on the rear of the unit include power, speaker outputs, RCA pre-outs, USB input, and auxiliary input. Ensure all connections are secure and correctly matched to avoid damage to the unit or vehicle's electrical system.

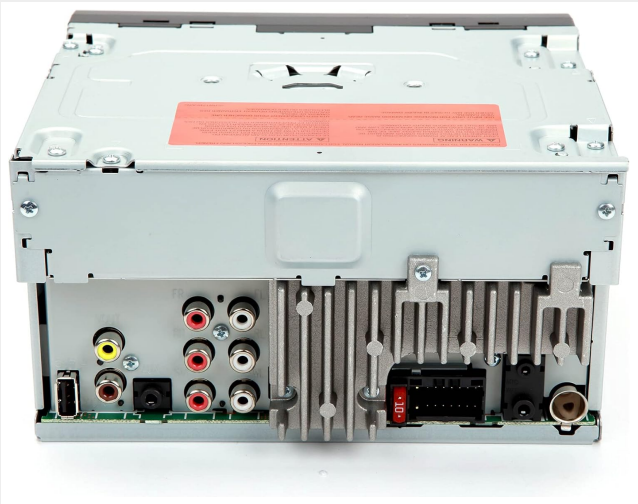


Figure 1: Rear view of the AVH-221EX receiver, illustrating the various input and output ports for power, speakers, RCA connections, USB, and AUX.

Operating Instructions

General Operation and Display

The AVH-221EX features a responsive 6.2-inch WVGA clear resistive touchscreen for primary control. The main menu provides access to various sources such as Radio, Disc, iPod, Bluetooth Audio, and AUX. Physical buttons on the left side of the unit offer quick access to volume, mute, display, and track controls.



Figure 2: The main menu interface of the AVH-221EX, displaying icons for various audio and video sources.

Audio Playback (iPod/USB/Bluetooth/AUX)

Connect your iPod or USB device to the rear USB port using the provided extension cable. Navigate through your music library directly from the touchscreen. For Bluetooth audio, pair your smartphone with the receiver and stream music wirelessly. The AUX input allows connection of any audio device with a 3.5mm output.



Figure 3: The AVH-221EX displaying the iPod playback screen, showing track information and control options.

Video Playback (DVD)

Insert a DVD into the disc slot to begin video playback. The unit supports various video formats. Ensure your vehicle is parked and the parking brake is engaged for video playback to function, as a safety measure.



Figure 4: The AVH-221EX screen during DVD video playback, showing the video content and overlay controls.

Bluetooth Hands-Free Calling

To use the hands-free calling feature, pair your Bluetooth-enabled phone with the AVH-221EX. Access the Bluetooth menu to search for devices and connect. Once paired, you can make and receive calls directly through the receiver, utilizing the included microphone for clear communication.

Maintenance

To ensure the longevity and optimal performance of your Pioneer AVH-221EX, follow these maintenance guidelines:

- **Cleaning the Display:** Use a soft, dry cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water. Avoid using abrasive cleaners or solvents.
- **Disc Care:** Handle discs by their edges to prevent scratches. Keep discs clean and store them in their cases when not in use.
- **General Cleaning:** Periodically wipe the unit's exterior with a soft, dry cloth to remove dust and debris.
- **Avoid Extreme Temperatures:** Do not expose the unit to direct sunlight for prolonged periods or to extreme cold, as this can affect performance and display life.

Troubleshooting

If you encounter issues with your AVH-221EX, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power	Blown fuse, incorrect wiring, vehicle battery issue.	Check vehicle's fuse box and the unit's fuse. Verify power and ground connections. Consult an installer if unsure.
No sound	Volume too low, mute activated, incorrect speaker wiring, amplifier issue.	Increase volume. Check if mute is active. Verify speaker connections. Ensure external amplifier (if used) is powered on.
Bluetooth not connecting	Device not in pairing mode, unit not in pairing mode, interference.	Ensure both devices are in pairing mode. Delete previous pairings and try again. Move closer to the unit.
Video not playing	Parking brake not engaged, incorrect video format, disc error.	Ensure parking brake is fully engaged. Check disc for damage. Verify video format compatibility.
Touchscreen unresponsive	System freeze, dirt on screen.	Perform a soft reset (refer to owner's manual for button combination). Clean the screen.

For more detailed troubleshooting, please consult the full Owner's Manual or contact Pioneer customer support.

Specifications

- **Model Number:** AVH-221EX
- **Screen Size:** 6.2 Inches
- **Display Type:** WVGA Clear Resistive Touchscreen
- **Media Type:** CD & DVD
- **Product Dimensions:** 108 x 9.6 x 6 inches
- **Item Weight:** 3 pounds
- **Manufacturer:** Pioneer
- **Country of Origin:** Thailand
- **Color:** Black
- **Pre-Outs:** 3 (2V)
- **Equalizer:** 13-band GEQ
- **Connectivity:** Bluetooth, Rear USB, Rear AUX-IN (Audio & Video)

Warranty and Support

Pioneer provides a limited warranty for this product. Please refer to the warranty card included in your package for specific terms and conditions, including warranty period and coverage details. For technical support, service, or additional information, please visit the official Pioneer website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.
You can find more information and support resources on thePioneer Store on Amazon.

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and use this page's manual context to help answer it.

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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