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PIONEER DMH-220EX

Pioneer DMH-220EX 6.2" Digital Media Receiver

User Manual

1. PRODUCT OVERVIEW

The Pioneer DMH-220EX is a 6.2-inch digital media receiver featuring a resistive touchscreen for intuitive control. This unit enhances your in-car audio experience with built-in Bluetooth for hands-free calling and wireless audio streaming. It is also ready for a backup camera, adding an extra layer of safety and convenience.

Key Features:

- 6.2" WVGA Clear Resistive Touchscreen
- Multilingual Display for diverse user preferences
- Smartphone Compatible for seamless integration
- Built-in Bluetooth for hands-free calling and audio streaming
- Back-up Camera Ready for enhanced safety
- 13-band equalizer for detailed audio customization
- USB and AUX inputs for various media devices



Figure 1: Front view of the Pioneer DMH-220EX Digital Media Receiver, showing the 6.2-inch resistive touchscreen and control buttons.

2. WHAT'S IN THE Box

Upon opening the package, ensure all the following components are present:

- Digital media receiver with fixed 6.2" touchscreen monitor (10A fuse)
- Wiring harness
- 5' USB extension cable
- Microphone with visor-bracket (attached 10' cable terminated by a right-angled 2.5mm connector)
- (12) Installation Screws
- Quick Start Guide
- Installation Manual
- 1 Year Warranty Sheet

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended to have this unit installed by a qualified technician. Refer to the included *Installation Manual* for detailed wiring diagrams and mounting instructions specific to your vehicle.

Key Installation Steps:

1. **Mounting:** Securely mount the receiver in your vehicle's dashboard using the provided installation screws.
2. **Wiring:** Connect the wiring harness to your vehicle's electrical system. Ensure all connections are secure and correctly matched according to the wiring diagram.
3. **USB and AUX Connections:** Connect the USB extension cable and any auxiliary input devices as needed.

4. **Microphone Placement:** Install the microphone in a suitable location for clear hands-free communication.
5. **Backup Camera (Optional):** If installing a backup camera, connect it to the designated input on the receiver.



Figure 2: Rear view of the Pioneer DMH-220EX, showing various input/output ports and the wiring harness connection.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

The unit powers on automatically with your vehicle's ignition. To turn off the display, press and hold the **DISP** button. To power off the unit completely, consult your vehicle's specific power-off procedure or the detailed *Installation Manual*.

4.2 Touchscreen Interface

The 6.2-inch resistive touchscreen allows for direct interaction with the unit's functions. Tap icons to select sources, adjust settings, or navigate menus. The interface is designed for ease of use.



Figure 3: Main menu screen of the Pioneer DMH-220EX, showing options for Radio, iPod, Bluetooth Audio, AUX, and Camera View.

4.3 Bluetooth Connectivity

To pair your smartphone:

1. Ensure Bluetooth is enabled on both the DMH-220EX and your smartphone.
2. On the DMH-220EX, navigate to the Bluetooth settings menu.
3. Select "Pair New Device" or similar option.
4. Search for the Pioneer unit on your smartphone and select it to pair.
5. Confirm the pairing code if prompted.

Once paired, you can make hands-free calls and stream audio wirelessly. The unit supports pairing two phones for convenient access.

4.4 Media Playback

Connect your iPod, iPhone, or other compatible devices via the USB input. The unit displays metadata such as track, artist, and album name when available. An AUX input is also available for other audio players. Video playback from an outboard video player or USB drive is supported when the vehicle is parked and the parking brake is engaged.

4.5 Audio Customization

Utilize the 13-band equalizer to fine-tune the audio output to your preferences. Access equalizer settings through the touchscreen menu.

4.6 Backup Camera Functionality

When a compatible backup camera is connected and the vehicle is in reverse, the unit automatically displays the camera feed, providing a clear view of the area behind your vehicle.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Pioneer DMH-220EX, follow these maintenance guidelines:

- **Screen Cleaning:** Gently wipe the touchscreen with a soft, lint-free cloth. For stubborn smudges, use a screen cleaner specifically designed for electronic displays. Avoid abrasive materials or harsh chemicals.
- **General Cleaning:** Keep the unit free from dust and debris. Use a soft brush or compressed air to clean around buttons and vents.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for extended periods, as this can affect its electronic components.
- **Firmware Updates:** Periodically check the Pioneer website for any available firmware updates to ensure your unit has the latest features and bug fixes.

6. TROUBLESHOOTING

If you encounter issues with your DMH-220EX, refer to the following common troubleshooting steps:

- **Screen is Black/Does Not Turn On:**
 - Ensure the vehicle's ignition is on and the unit is receiving power.
 - Check if the display is simply turned off. Press the **DISP** button to toggle the display on/off.
 - Verify all wiring connections, especially the power and ground wires, are secure. A loose connection can prevent the screen from lighting up.
 - If the unit's buttons illuminate but the screen remains black, there might be an internal display issue. Consider a system reset (refer to the full manual for reset procedures) or contact customer support.
- **Volume Control Issues (e.g., volume goes up automatically, slow response):**
 - This could indicate a faulty volume button or an internal control issue.
 - Attempt a soft reset of the unit.
 - Ensure no debris is lodged around the volume buttons.
 - If the problem persists, professional inspection may be required.
- **Cannot Connect Bluetooth:**
 - Ensure Bluetooth is enabled on both the DMH-220EX and your smartphone.
 - Delete previous pairings from both devices and attempt to pair again.
 - Move your smartphone closer to the unit to rule out signal interference.
 - Restart both the unit (by turning the car off and on) and your smartphone.
 - Check the unit's Bluetooth settings to ensure it's in pairing mode or discoverable.
- **No Audio Output:**
 - Check the volume level on both the unit and your connected device.
 - Ensure the correct audio source (e.g., Bluetooth, USB, AUX) is selected.
 - Verify speaker wiring connections.
 - Check the mute function; press the **MUTE** button to ensure it's not active.

For more detailed troubleshooting or persistent issues, please consult the full *User Manual* or contact Pioneer customer support.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	6.5 x 7 x 3.88 inches
Item Weight	2.4 pounds
Manufacturer	Pioneer
Model Number	DMH-220EX
Brand	PIONEER
Connectivity Technology	Bluetooth, USB
Controller Type	Android
Special Feature	6.2-Inch Digital Multimedia Bluetooth Receiver (does not play CDs)
Compatible Devices	Apple iPhone, Smartphone
Connector Type	USB
Audio Output Mode	Stereo
Surround Sound Channel Configuration	4.0 or 4.1
Color	Black

8. WARRANTY AND SUPPORT

The Pioneer DMH-220EX Digital Media Receiver comes with a 1-year limited warranty. Please refer to the included *1 Year Warranty Sheet* for full terms and conditions.

For technical support, service, or warranty claims, please contact Pioneer customer service through their official website or the contact information provided in your warranty documentation.

Legal Disclaimer: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, please refer to the product packaging or the manufacturer's website.