Clarion FX450

Clarion FX450 Stereo Touch Screen Radio User Manual

Model: FX450

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Clarion FX450 Stereo Touch Screen Radio. Please read this manual thoroughly before using the product to ensure proper operation and to prevent damage.

The Clarion FX450 is a 2-DIN car stereo head unit featuring a 6.8-inch high-definition WVGA capacitive touch screen. It supports Apple CarPlay and Android Auto, Bluetooth connectivity, AM/FM radio, and has a rear view camera input. With 50 Watts x 4 channel output, it delivers a high-quality audio experience.

What's in the Box

- Clarion FX450 Head Unit
- Wire Harness
- User Manual (this document)

Product Overview

The Clarion FX450 features a sleek design with a flat key console on the left side for easy access to essential functions. Its intuitive interface allows for seamless control of various features.



Figure 1: Front view of the Clarion FX450 Stereo Touch Screen Radio, showing the 6.8-inch display and side controls.



Figure 2: The main screen interface of the FX450, displaying icons for Radio, USB, Phone, Bluetooth, Apple CarPlay, Android Auto, AV-IN, and Audio.

Setup and Installation

Professional installation is recommended for optimal performance and safety. Ensure the vehicle's battery is disconnected before beginning installation.

Wiring Diagram

Refer to the included wire harness for specific connections. Key connections include:

- **Power (Yellow):** Constant 12V supply.
- **Accessory (Red):** Switched 12V supply (ignition).

- **Ground (Black):** Connect to vehicle chassis.
- **Speaker Outputs (White, Gray, Green, Purple):** Connect to corresponding vehicle speakers.
- **Reverse Gear Signal (Brown/Orange):** For automatic rear view camera activation.
- **Steering Wheel Control Input (SWC):** For programmable steering wheel controls.
- **USB Port:** For Apple CarPlay, Android Auto, and media playback.
- **RCA Outputs:** For external amplifiers (3 RCA outputs).

Mounting

The FX450 is a 2-DIN unit. Ensure your vehicle's dashboard opening is compatible. Secure the unit using the provided mounting brackets and screws.

Operating Instructions

Basic Operation

- **Power On/Off:** Press the **POWER** button on the left panel.
- **Volume Control:** Use the **VOL +** and **VOL -** buttons.
- **Display Control:** Press the **DISP** button to adjust display settings.
- **Voice Command:** Press the **VOICE** button to activate voice assistant (when connected to a smartphone).
- **Home Screen:** Tap the home icon on the screen or the physical home button (if available) to return to the main menu.

Smartphone Integration (Apple CarPlay / Android Auto)

Connect your iPhone or Android smartphone to the FX450 via a USB cable to activate Apple CarPlay or Android Auto. This allows you to access navigation, music, messages, and calls directly from the head unit's screen.



Figure 3: The Clarion FX450 seamlessly integrated into a vehicle's dashboard, showcasing the Apple CarPlay interface with various app icons.



Figure 4: A close-up of the FX450 screen displaying Apple CarPlay, with a subtle reflection of the car's interior and a person in the rearview mirror, emphasizing real-world usage.



Figure 5: The FX450 screen displaying the Android Auto navigation interface, showing current weather conditions and route information against a scenic road background.

Bluetooth Connectivity

Pair your smartphone via Bluetooth for hands-free calling and audio streaming. Access the Bluetooth menu on the head unit to search for devices and connect.

- **Pairing:** Go to Bluetooth settings, enable pairing mode on the FX450, and select "Clarion FX450" on your smartphone.
- **Hands-Free Calling:** Make and receive calls directly from the touch screen or using voice commands.
- **Audio Streaming:** Play music from your smartphone wirelessly through the car's speakers.

Audio Settings

The FX450 features a built-in equalizer and time alignment functions to optimize sound quality. Access these settings through the Audio menu on the touch screen.

- **Equalizer:** Adjust frequency bands to customize your sound profile.
- **Time Alignment:** Optimize sound delivery to each speaker based on listening position.
- **Subwoofer Control:** Adjust subwoofer output levels and crossover frequencies (if connected via RCA outputs).

Maintenance

To ensure the longevity and optimal performance of your Clarion FX450, follow these maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touch screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid abrasive materials or harsh chemicals.
- **General Cleaning:** Wipe the unit's body with a dry, soft cloth. Do not use liquid cleaners directly on the unit.
- **Firmware Updates:** Periodically check the Clarion official website for any available firmware updates. Updates can improve performance, add features, or fix bugs. Follow the instructions provided with the update carefully.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for prolonged periods, as this can affect its electronic components and screen.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power	Blown fuse; Incorrect wiring; Vehicle battery issues.	Check vehicle fuses and the unit's fuse. Verify power and ground connections. Check vehicle battery.
No sound	Volume too low; Mute activated; Speaker wiring issues; Incorrect audio source.	Increase volume. Check if mute is on. Inspect speaker connections. Select correct audio source.
Touch screen unresponsive	System freeze; Screen calibration needed.	Perform a soft reset (refer to manual for specific steps). If issue persists, contact support.
Apple CarPlay/Android Auto not connecting	Faulty USB cable; Phone not compatible; Software glitch.	Try a different USB cable. Ensure your phone's OS is updated. Restart both phone and head unit.
Bluetooth pairing issues	Device not in pairing mode; Interference; Already paired with max devices.	Ensure both devices are in pairing mode. Delete previous pairings. Move closer to the unit.
Clock does not keep time	Incorrect time zone setting; Internal battery issue (less common).	Verify time zone and time synchronization settings. If problem persists, contact support.

If the problem persists after attempting these solutions, please contact Clarion customer support or a qualified service technician.

Specifications

Feature	Detail
Model Number	FX450
Display	6.8" WVGA Capacitive Touch Screen
DIN Size	2 DIN
Power Output	50 Watts x 4 Channels
Connectivity	USB, RCA, Bluetooth
Smartphone Integration	Apple CarPlay, Android Auto
Audio Features	Equalizers, Time Alignment, 3 RCA outputs
Radio Tuner	AM-FM
Rear View Camera Input	Yes
Product Dimensions	6.38 x 7.36 x 9.09 inches
Item Weight	3.7 pounds

Warranty and Support

Clarion products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official Clarion website. Keep your proof of purchase for warranty claims.
For technical support, troubleshooting assistance, or service inquiries, please contact Clarion customer support through their official website or the contact information provided in your product packaging.
Clarion Official Website: www.clarion.com

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