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Polarlander FS07C

Polarlander FS07C Single Din Car Radio User Manual

Model: FS07C

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Polarlander FS07C Single Din Car Radio. Please read this manual thoroughly before using the product to ensure correct operation and to prevent damage.

The Polarlander FS07C is a versatile single DIN multimedia player featuring a 6.2-inch capacitive touch screen, compatible with Apple CarPlay and Android Auto, Bluetooth 5.1 for hands-free calling and audio streaming, FM radio, USB playback, and support for a rear view camera.

2. Safety Information

- Do not operate the device in a way that distracts you from driving. Always prioritize road safety.
- Ensure proper installation by a qualified professional to prevent electrical shorts or damage to your vehicle.
- Do not disassemble or modify the unit. This may cause damage, electric shock, or fire.
- Keep the volume at a level that allows you to hear outside traffic sounds.
- Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

3. Package Contents

Please check that all items are present in the package:

- Polarlander FS07C Car Radio Unit
- Power and Speaker Wiring Harness
- Remote Control
- 8LED Rear View Camera (with necessary cables)
- User Manual
- Mounting Accessories (brackets, screws)

4. Product Overview

Familiarize yourself with the main components and controls of your car radio.

Front Panel and Controls



Image: Front view of the Polarlander FS07C car radio, highlighting the 6.2-inch screen and various control buttons and knobs.

- **6.2-inch Capacitive Touch Screen:** Main interface for all functions.
- **Volume Knob:** Adjusts audio output level. Press to mute/unmute.
- **USB Ports:** For media playback, smartphone connection (CarPlay/Android Auto), and charging.
- **MODE Button:** Switches between input sources (Radio, USB, Bluetooth, CarPlay/Android Auto).
- **EQ Button:** Accesses audio equalizer settings.
- **MENU Button:** Opens the main menu or settings.
- **Power Button:** Turns the unit on/off.

Rear Connections

The rear panel includes various ports for power, speakers, antenna, and external devices. Refer to the wiring diagram

for detailed connections.

- **Power Harness Connector:** For connecting to vehicle's power supply (ACC, B+, Ground) and speaker outputs.
- **Antenna Input:** For connecting the vehicle's FM/AM antenna.
- **Rear Camera Input:** RCA input for the included rear view camera.
- **Video Output:** For connecting to external monitors.
- **Audio Output (RCA):** For connecting to external amplifiers.
- **External Microphone Input:** For an optional external microphone.

5. Setup and Installation

Proper installation is crucial for the performance and safety of your car radio. It is recommended to have this unit installed by a professional.

5.1. Installation Steps

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
2. **Remove Old Unit:** Carefully remove your existing car radio from the dashboard.
3. **Mounting:** Secure the Polarlander FS07C unit into the single DIN opening using the provided mounting brackets and screws.
4. **Wiring:** Connect the wiring harness, antenna, and rear camera cables as described in the wiring section.
5. **Test Connections:** Before fully reassembling the dashboard, reconnect the battery and perform a quick test of the unit's basic functions.
6. **Reassemble:** Once confirmed working, carefully reassemble your vehicle's dashboard.

5.2. Wiring Diagram (General)

The included wiring harness will have color-coded wires. Match them to your vehicle's wiring. If unsure, consult a professional or your vehicle's wiring diagram.

- **Yellow (B+ / Constant Power):** Connect to a constant 12V power source.
- **Red (ACC / Switched Power):** Connect to a 12V accessory power source that turns on/off with the ignition.
- **Black (Ground):** Connect to a metal part of the vehicle chassis.
- **Blue (Antenna / Remote Out):** Connect to power antenna or amplifier remote turn-on.
- **Orange (Illumination):** Connect to vehicle's illumination wire (optional).
- **Brown (Reverse Gear):** Connect to the reverse light wire for automatic rear camera display.
- **Speaker Wires:** Typically White/White-Black (Front Left), Gray/Gray-Black (Front Right), Green/Green-Black (Rear Left), Purple/Purple-Black (Rear Right). Ensure correct polarity.

Note: Specific wire colors may vary by vehicle. Always verify with a multimeter or vehicle wiring diagram.

6. Operating Instructions

6.1. Basic Operation

- **Power On/Off:** Press the power button on the front panel.
- **Volume Control:** Rotate the volume knob. Press the knob to mute/unmute.
- **Source Selection:** Press the **MODE** button to cycle through available sources (Radio, USB, Bluetooth, CarPlay/Android Auto).

- **Main Menu:** Press the **MENU** button to access the main application screen.
- **Touch Screen:** Navigate menus and control functions by touching the screen icons.

6.2. Apple CarPlay



Image: The car radio displaying the Apple CarPlay interface, showing various iOS apps. An iPhone is shown connected via USB.

CarPlay allows you to intelligently and safely use your iPhone's features while driving. It supports navigation, calls, messages, and music playback.

1. Connect your iPhone to the front USB port of the car radio using a certified USB data cable.
2. The unit will automatically detect the iPhone and launch the CarPlay interface.
3. Use the touch screen to navigate CarPlay applications.

Note: CarPlay requires a compatible iPhone and a valid USB data connection.

6.3. Android Auto

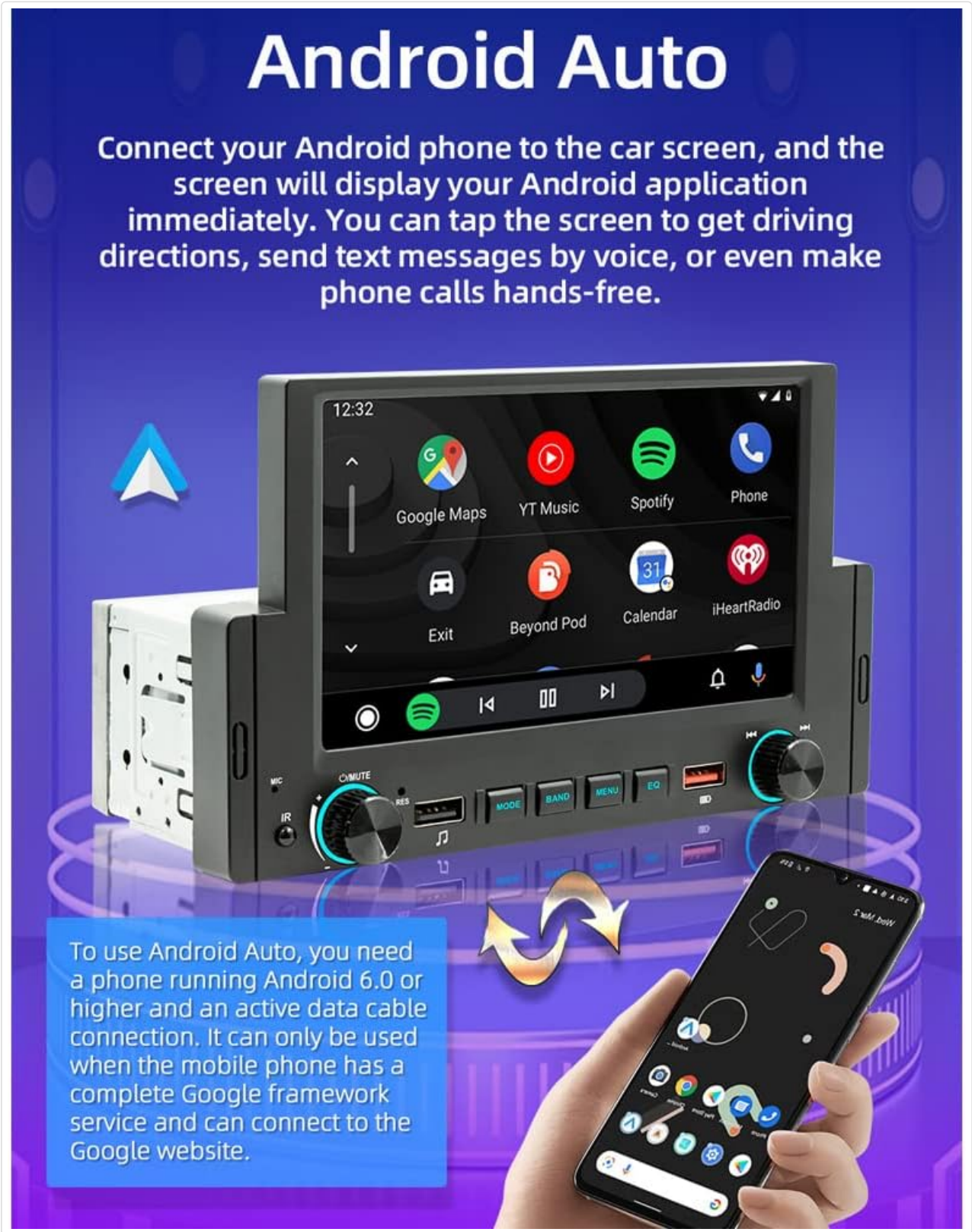


Image: The car radio displaying the Android Auto interface, showing Google Maps and other Android apps. An Android phone is shown connected via USB.

Android Auto extends the Android platform into the car, providing driving directions, voice-controlled messaging, and hands-free calling.

1. Ensure your Android phone is running Android 6.0 or higher and has the Android Auto app installed.
2. Connect your Android phone to the front USB port of the car radio using a certified USB data cable.

3. The unit will automatically detect the phone and launch the Android Auto interface.
4. Use the touch screen or voice commands to interact with Android Auto.

Note: Android Auto requires a compatible Android phone, the Android Auto app, and a valid USB data connection.

6.4. Mirror Link Function



Image: The car radio screen mirroring a smartphone display, demonstrating the Mirror Link feature. A USB cable is shown connecting the phone to the unit.

Mirror Link allows you to cast your smartphone screen directly onto the car radio display. This function is compatible with both Android and iPhone devices.

1. Connect your smartphone to the USB port using a valid data cable.
2. Select the "Mirror Link" option from the main menu.

3. Follow the on-screen prompts to establish the connection.

Note: Functionality may vary depending on your smartphone model and operating system.

6.5. Bluetooth Operation

The unit features Bluetooth 5.1 for hands-free calling and wireless audio streaming (A2DP).

Pairing a Device:

1. Go to the Bluetooth menu on the car radio.
2. Enable Bluetooth on your smartphone and search for available devices.
3. Select "Polarlander FS07C" (or similar name) from the list on your phone.
4. Confirm the pairing code on both devices if prompted.

Hands-Free Calling:

- Once paired, you can make and receive calls directly through the car radio.
- Use the touch screen to dial numbers, answer, or end calls.
- The built-in microphone will pick up your voice. An external microphone input is also available.

Bluetooth Audio (A2DP):

- After pairing, select the Bluetooth Audio source on the car radio.
- Play music from your smartphone, and it will stream wirelessly to the car radio.
- Use the car radio controls to play, pause, skip tracks, and adjust volume.

6.6. FM Radio



Image: The car radio displaying the FM radio interface, showing the current frequency (87.50 MHz) and preset buttons.

The unit features an FM stereo receiver with a frequency range of 87.5-108.0 MHz.

- **Auto Scan:** Press the "AS" (Auto Store) button to automatically scan and save strong stations to presets.
- **Manual Tuning:** Use the arrow buttons on the screen to manually tune to frequencies.
- **Presets:** Touch the preset numbers (P1-P6) to recall saved stations.

6.7. USB Playback



Image: The car radio screen showing options for USB playback, including music, video, and picture files. A USB drive is shown connected.

Connect a USB flash drive (up to 32GB, FAT32 format) to one of the USB ports to play music, videos, or view pictures.

1. Insert the USB drive into the USB port.
2. The unit will automatically detect the USB and display the media playback interface.
3. Select "Music," "Video," or "Picture" to browse and play files.
4. Use the on-screen controls for playback (play, pause, skip, repeat).

Note: Not all file formats may be supported. Ensure USB drive is formatted to FAT32.

6.8. Rear View Camera Function



Image: The car radio screen displaying a live feed from a rear view camera, complete with parking guidelines. Two camera units are shown below the screen.

When the vehicle is shifted into reverse gear, the unit will automatically display the rear view camera feed, aiding in safe parking.

- Ensure the rear camera is properly installed and connected to the "Reverse Gear" wire and the camera input.
- The screen will switch to the camera view when reverse gear is engaged.
- Parking guidelines may be displayed on the screen (if supported by the camera).

6.9. Steering Wheel Control (SWC)

The unit supports universal analog steering wheel controls, allowing you to operate basic functions without taking your hands off the wheel.

1. Connect the SWC wires from your vehicle to the corresponding SWC input wires on the car radio harness.
2. Access the "Steering Wheel Control" settings menu on the unit.
3. Follow the on-screen instructions to program each button on your steering wheel to the desired function (e.g., volume up/down, track skip, mode).

6.10. System Settings

Access the settings menu to customize various aspects of the unit.

- **Audio EQ Setting:** Adjust bass, treble, balance, fader, and loudness.
- **Display Settings:** Adjust screen brightness, contrast, hue, and saturation.
- **7 Colors Backlight:** Customize the color of the physical buttons on the unit.



Image: The car radio displaying different button backlight colors, illustrating the 7-color lighting feature.

- **Language:** Select the desired OSD language (English, Chinese, Spanish, Portuguese, Russian, German, French, Polish, Turkish, Arabic, Hebrew, Italian, Czech, Japanese).

7. Maintenance

- **Cleaning the Screen:** Use a soft, lint-free cloth to gently wipe the screen. For stubborn marks, slightly dampen the cloth with water or a screen cleaner designed for electronics. Do not use abrasive cleaners.
- **General Cleaning:** Wipe the unit's exterior with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- **Firmware Updates:** Check the manufacturer's website periodically for any available firmware updates to improve performance or add features.

8. Troubleshooting

Problem	Possible Cause	Solution
No power	Incorrect wiring (B+, ACC, Ground) Blown fuse	Check all power connections. Ensure B+ has constant 12V, ACC has 12V with ignition. Check vehicle's fuse box and the unit's fuse.
No sound	Speaker wires incorrectly connected Volume too low or muted Incorrect audio source selected	Verify speaker wiring polarity and connections. Increase volume, check mute status. Select the correct audio source.
Bluetooth not connecting	Bluetooth not enabled on phone/unit Device not in pairing mode Interference	Ensure Bluetooth is active on both devices. Put the unit in pairing mode. Try pairing again. Move closer to the unit.
CarPlay/Android Auto not launching	Faulty USB cable Phone not compatible App not installed/updated	Use a high-quality, certified USB data cable. Ensure your phone meets OS requirements. Update CarPlay/Android Auto app on your phone.
Rear camera not displaying	Camera not powered Video cable disconnected Reverse trigger wire not connected	Check camera power supply. Ensure RCA video cable is securely connected. Verify the reverse trigger wire is connected to the vehicle's reverse light circuit.

9. Specifications

Model Number	FS07C
Screen Size	6.2 inch
Screen Type	Capacitive Touch Screen
Resolution	800*480
Bluetooth Version	5.1
Output Power	45W x 4 Channels

FM Frequency Range	87.5 - 108.0 MHz
USB Support	Max 32GB (FAT32 format)
CarPlay Compatibility	Wired (front USB port only) for iPhone
Android Auto Compatibility	Wired (front USB port only) for Android phones (Android 6.0+)
Mirror Link	Supported (Android & iPhone)
Rear Camera Input	Supported (CCD and AHD)
Steering Wheel Control	Supported (universal analog type)
OSD Languages	English, Chinese, Spanish, Portuguese, Russian, German, French, Polish, Turkish, Arabic, Hebrew, Italian, Czech, Japanese

10. Warranty and Support

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Polarlander customer service through the retailer where you purchased the product or visit the official Polarlander website for contact information.

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