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› Axxess AXLOC-FD2 2-Channel Line Output Converter Instruction Manual for Ford 2011-Up

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Model: AXLOC-FD2

INTRODUCTION

The Axxess AXLOC-FD2 is a 2-channel line output converter designed to integrate aftermarket amplifiers with factory audio systems in select Ford vehicles from 2011 and newer. This device converts high-level speaker signals from the factory radio into low-level RCA signals, providing a clean and adjustable output for your amplifier. It also provides a 12-volt accessory output for amplifier turn-on.

SAFETY INFORMATION

- Always disconnect the vehicle's negative battery terminal before beginning any installation.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Consult a professional car audio installer if you are unsure about any part of the installation process.
- Do not operate the vehicle's audio system at excessively high volumes for prolonged periods, as this may cause hearing damage.
- Mount the converter in a location that is protected from moisture and excessive heat.

PACKAGE CONTENTS

Verify that all items are present before beginning installation:

- AXLOC-FD2 Line Output Converter Module
- Vehicle-specific wiring harness
- RCA output cables
- Remote turn-on wire



Figure 1: Components included in the Axxess AXLOC-FD2 kit. This image displays the main converter unit, various wiring harnesses with connectors, and RCA cables, illustrating the complete set of parts for installation.

INSTALLATION INSTRUCTIONS

This section outlines the general installation procedure. Specific vehicle disassembly instructions are beyond the scope of this manual. Refer to a vehicle-specific service manual for dash removal and access to the factory radio wiring.

Tools Required:

- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Multimeter
- Panel removal tools
- Screwdrivers/socket set

Wiring Diagram and Connections:

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of the vehicle's battery to prevent electrical shorts.
2. **Access Factory Radio:** Carefully remove the necessary trim panels and components to gain access to

the back of the factory radio.

3. **Identify Speaker Wires:** Using a vehicle-specific wiring diagram or a multimeter, identify the factory speaker output wires (positive and negative for each channel) from the factory radio harness.
4. **Connect Input Harness:** Connect the vehicle-specific wiring harness provided with the AXLOC-FD2 to the factory radio harness. This harness will typically plug in-line with the factory radio, intercepting the speaker outputs.
5. **Connect AXLOC-FD2 Module:** Plug the main connector from the vehicle-specific harness into the AXLOC-FD2 module.
6. **Connect RCA Outputs:** Connect the RCA output cables from the AXLOC-FD2 module to the RCA inputs of your aftermarket amplifier.
7. **Connect Remote Turn-On:** The AXLOC-FD2 provides a 12-volt accessory output (remote turn-on) for your amplifier. Connect this wire to the remote turn-on input of your amplifier. This eliminates the need to find a separate switched 12V source.
8. **Ground Connection:** Ensure the AXLOC-FD2 module has a solid ground connection. The vehicle-specific harness should provide this, but always verify.
9. **Mounting:** Securely mount the AXLOC-FD2 module in a suitable location, away from heat and moisture, ensuring it does not interfere with any moving parts or vehicle components.



Figure 2: Overview of the AXLOC-FD2 wiring harness and converter units. This image illustrates how the main harness connects to the converter module, providing a visual guide for the primary connections during installation.



Figure 3: Detailed view of the AXLOC-FD2 converter module and associated connectors. This image provides a closer look at the input and output ports on the converter, as well as the design of the various plugs and sockets.

OPERATING INSTRUCTIONS

Gain Adjustment:

The AXLOC-FD2 features adjustable gain controls to match the output level of the factory radio to the input sensitivity of your aftermarket amplifier. Proper gain setting is crucial for optimal sound quality and to prevent distortion.

1. **Initial Setting:** Start with the gain controls on the AXLOC-FD2 set to their minimum position (fully counter-clockwise).
2. **Amplifier Gain:** Set the gain control on your aftermarket amplifier to its minimum position.
3. **Play Music:** Play a dynamic piece of music through your factory radio at about 75% of its maximum volume.
4. **Adjust AXLOC-FD2 Gain:** Slowly increase the gain controls on the AXLOC-FD2 until you hear a slight distortion, then back off slightly until the sound is clean.
5. **Adjust Amplifier Gain:** Once the AXLOC-FD2 gain is set, slowly increase the gain control on your

amplifier until the desired volume is achieved without distortion.

6. **Fine-tuning:** Make small adjustments to both the AXLOC-FD2 and amplifier gains as needed to achieve the best sound quality. Avoid setting gains too high, as this will introduce distortion and can damage speakers.

MAINTENANCE

The Axxess AXLOC-FD2 is designed for reliable, maintenance-free operation. No user-serviceable parts are inside. To ensure longevity:

- Keep the unit free from dust and debris.
- Ensure all wiring connections remain secure.
- Avoid exposing the unit to extreme temperatures or moisture.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No audio output from amplifier	◦ Loose RCA connections ◦ No remote turn-on signal to amplifier ◦ Incorrect input wiring to AXLOC-FD2 ◦ Amplifier not powered	◦ Check and secure all RCA cables. ◦ Verify remote turn-on wire is connected and receiving 12V. ◦ Double-check speaker input wiring from factory radio. ◦ Ensure amplifier has power and ground connections.
Distorted or poor sound quality	◦ Gain levels set too high ◦ Poor ground connection ◦ Incorrect speaker polarity	◦ Re-adjust gain settings on AXLOC-FD2 and amplifier (refer to Operating Instructions). ◦ Verify a solid, clean ground connection for both AXLOC-FD2 and amplifier. ◦ Check speaker wire polarity; ensure positive and negative are consistent.
Hissing or whining noise	◦ Ground loop interference ◦ Poor quality RCA cables	◦ Ensure all components are grounded to the same point. ◦ Try routing RCA cables away from power wires. ◦ Consider using higher quality shielded RCA cables.

SPECIFICATIONS

- **Model:** AXLOC-FD2
- **Channels:** 2-Channel
- **Input Type:** High-level (speaker level)
- **Output Type:** Low-level (RCA)
- **Compatibility:** Ford vehicles 2011-Up
- **Features:** Adjustable gain, 12V remote turn-on output
- **Item Weight:** Approximately 1.37 pounds

- **Package Dimensions:** Approximately 10.39 x 10.31 x 4.92 inches

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the manufacturer's official website or contact their customer service department. Keep your proof of purchase for warranty claims.

Manufacturer: Axxess

Website: axxessinterfaces.com (Example link, actual link may vary)