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> IMC Audio Aftermarket Wire Harness for Clarion Stereos (Models NX509, NX404, NX405, NX409, NX500, NX501, NX605, NX700, NX702, NX706) Instruction Manual

## IMC Audio CLA-3-1

# IMC Audio Aftermarket Wire Harness for Clarion Stereos Instruction Manual

Model: CLA-3-1

## INTRODUCTION

This manual provides instructions for the proper installation and use of the IMC Audio Aftermarket Wire Harness, Model CLA-3-1. This harness is designed to facilitate the connection of select Clarion stereo models to your vehicle's electrical system. Please read these instructions carefully before proceeding with installation.

**Product Description:** The IMC Audio Aftermarket Wire Harness Power Plug is designed to replace and connect power to specific Clarion stereo models, ensuring a reliable and straightforward installation process.

## COMPATIBILITY

This wire harness is compatible with the following Clarion stereo models:

- Clarion NX509
- Clarion NX404
- Clarion NX405
- Clarion NX409
- Clarion NX500
- Clarion NX501
- Clarion NX605
- Clarion NX700
- Clarion NX702
- Clarion NX706

Ensure your stereo model is listed above for proper functionality.

## PACKAGE CONTENTS

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The package includes:

- 1 x IMC Audio Aftermarket Wire Harness (Model CLA-3-1)

*Note: Additional tools and vehicle-specific wiring adapters may be required for complete installation and are not included.*

## SAFETY INFORMATION

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### **WARNING:**

- Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits and electrical shock.
- Improper installation can lead to electrical damage, fire, or injury. If you are unsure about any step, consult a qualified professional.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not modify the wire harness. Any modifications may void the warranty and compromise safety.

## SETUP AND INSTALLATION

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This section outlines the general steps for installing the IMC Audio Aftermarket Wire Harness. Specific vehicle wiring diagrams may be necessary for your particular vehicle model.

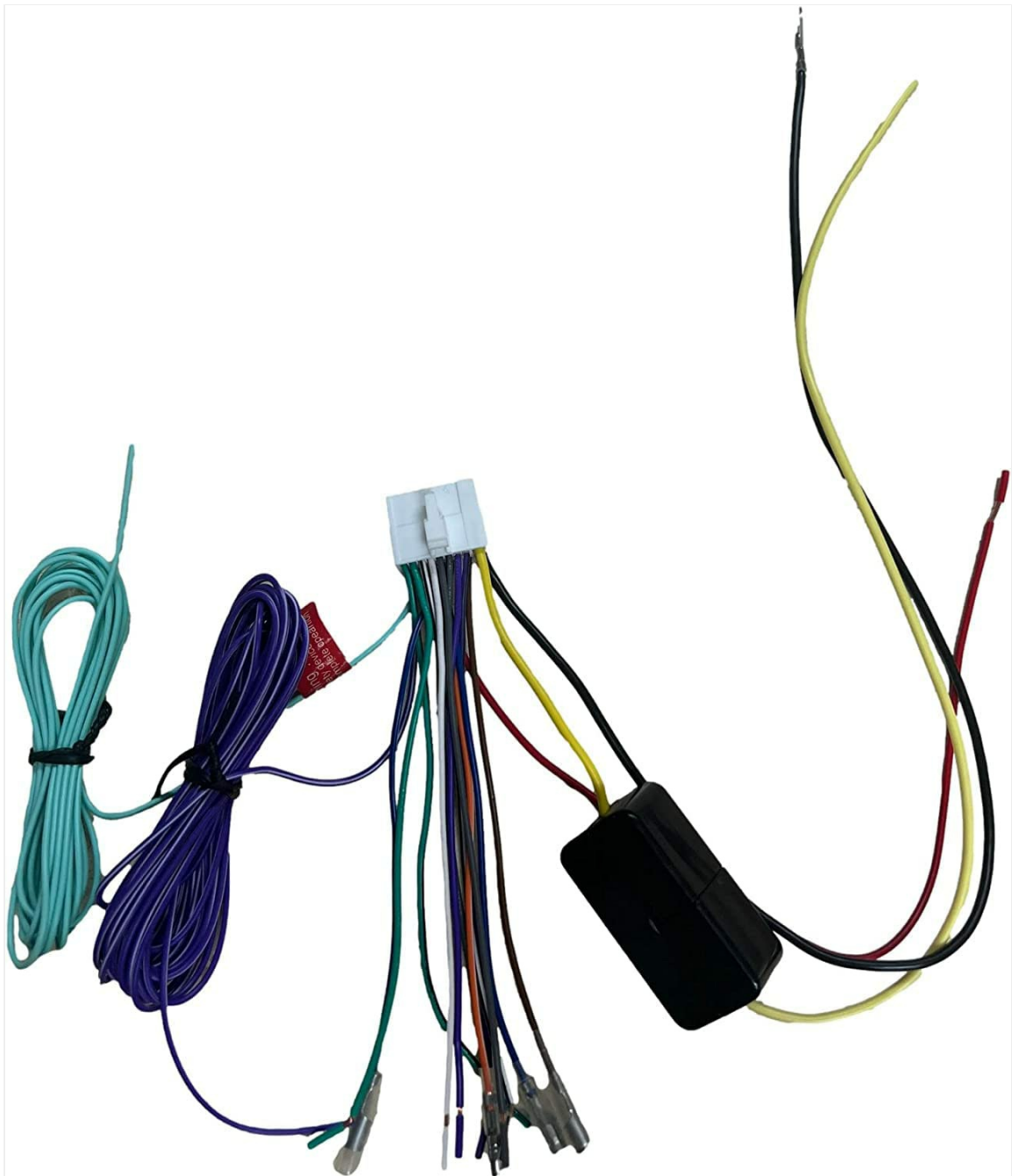
### **Tools and Materials Required (Not Included):**

- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Multimeter (optional, for verifying connections)
- Vehicle-specific wiring diagram

### **Installation Steps:**

#### **1. Prepare the Vehicle:**

Disconnect the negative terminal of your vehicle's battery. Remove the existing stereo unit from the dashboard to access the vehicle's wiring harness.



*Image: Example of a vehicle dashboard with the stereo removed, showing the cavity and existing wiring.*

## 2. Identify Vehicle Wiring:

Consult your vehicle's wiring diagram to identify the functions of each wire in the vehicle's factory harness (e.g., constant power, ignition power, ground, speaker wires, antenna, illumination).

## 3. Connect the IMC Audio Harness:

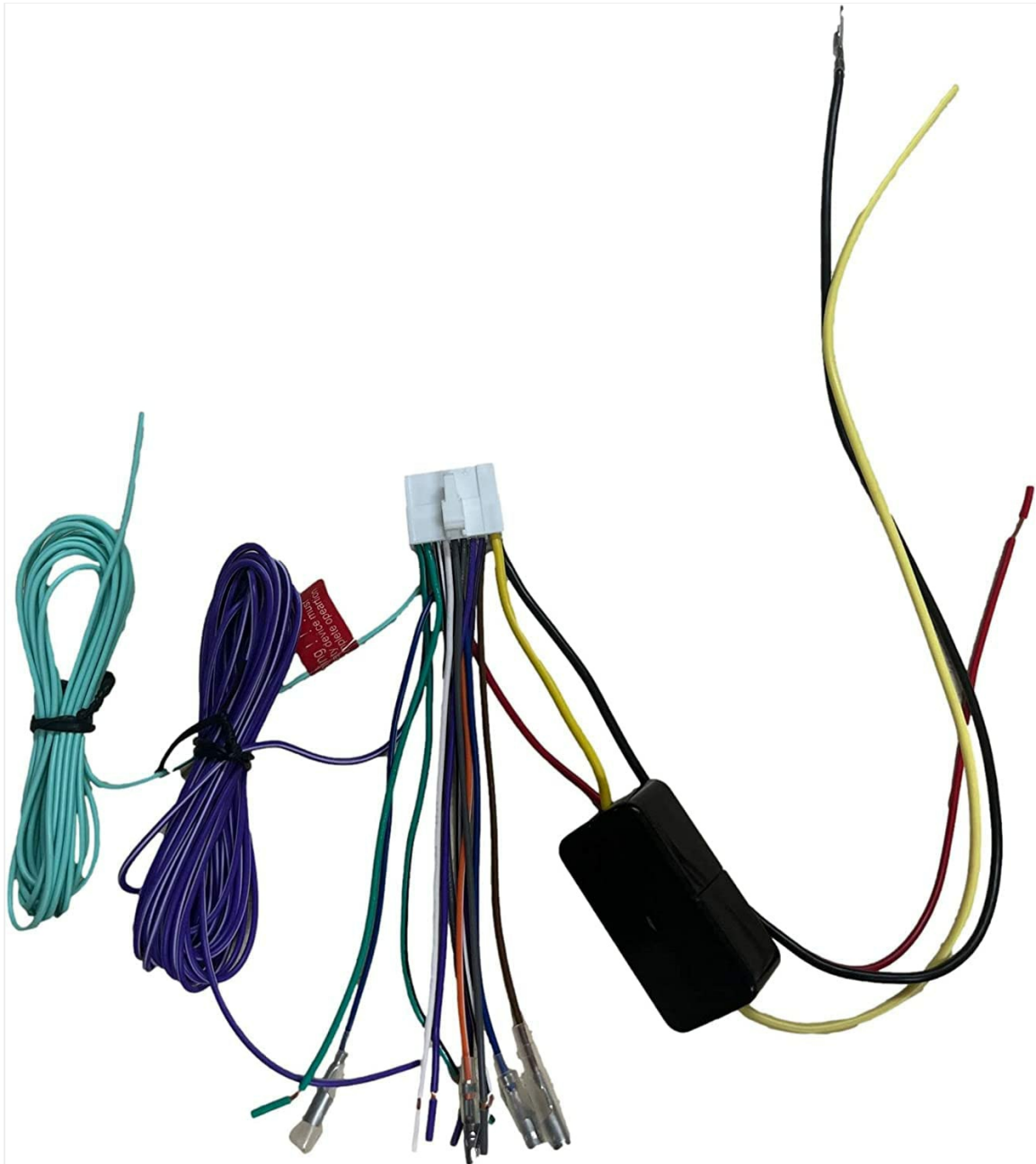
The IMC Audio harness features pre-stripped wires and follows the EIA color-code standard for easy identification. Match the wires from the IMC Audio harness to the corresponding wires on your vehicle's wiring harness or aftermarket adapter.

### EIA Color Code Reference:

| Wire Color | Function                          |
|------------|-----------------------------------|
| Yellow     | Constant 12V (Battery)            |
| Red        | Switched 12V (Ignition/Accessory) |
| Black      | Ground                            |
| Blue       | Power Antenna / Remote Turn-On    |

| Wire Color            | Function                  |
|-----------------------|---------------------------|
| Orange                | Illumination              |
| White / White-Black   | Front Left Speaker (+/-)  |
| Gray / Gray-Black     | Front Right Speaker (+/-) |
| Green / Green-Black   | Rear Left Speaker (+/-)   |
| Violet / Violet-Black | Rear Right Speaker (+/-)  |

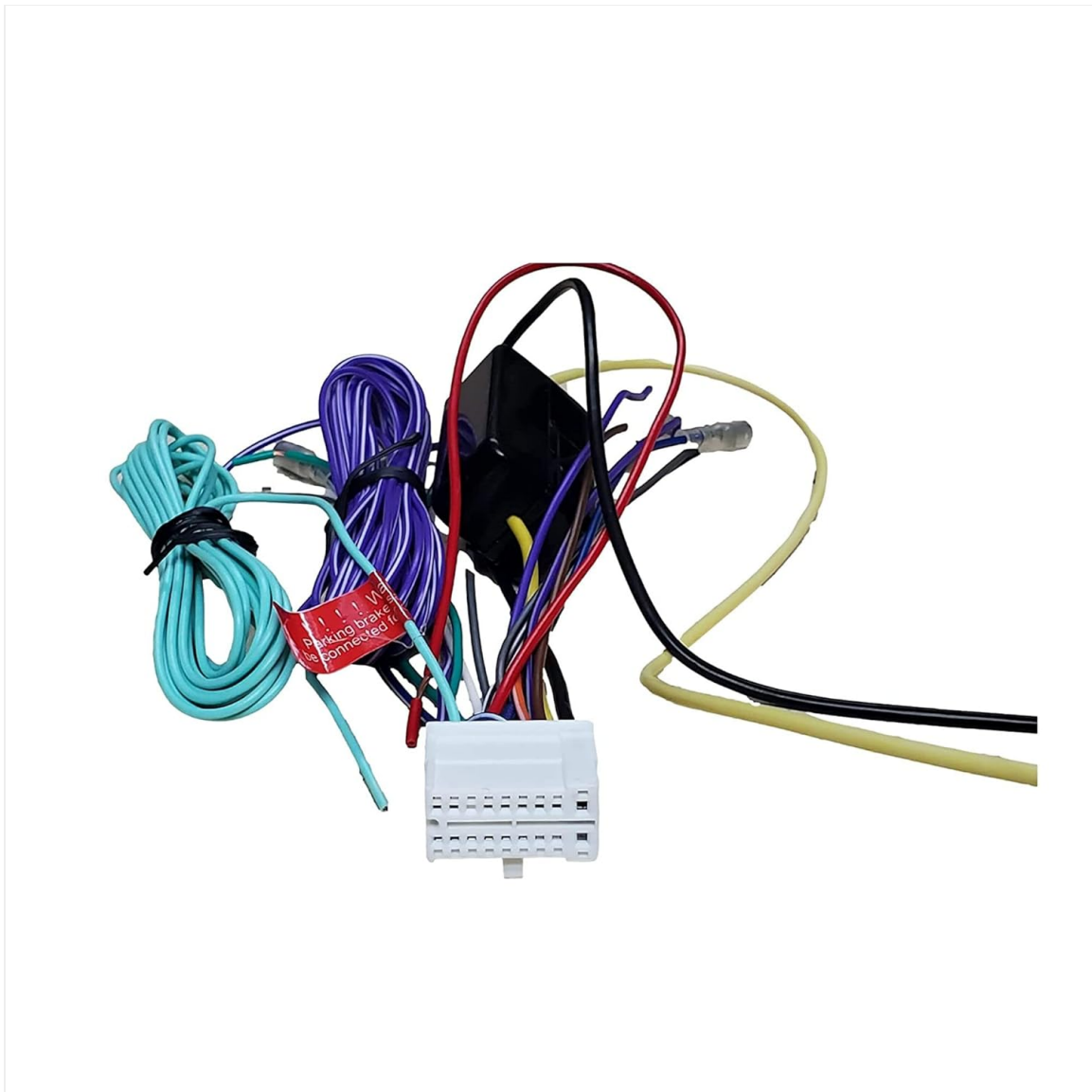
Use appropriate connectors (crimp caps, solder, or butt connectors) to secure each connection. Insulate all connections with electrical tape or heat shrink tubing.



*Image: The IMC Audio wire harness, displaying its various color-coded wires for power, ground, and speaker connections.*

#### 4. **Connect to Clarion Stereo:**

Once the IMC Audio harness is connected to the vehicle's wiring, plug the white multi-pin connector of the IMC Audio harness directly into the corresponding port on the back of your Clarion stereo unit.



*Image: Close-up of the white multi-pin connector on the IMC Audio harness, designed to plug into the Clarion stereo.*

#### 5. **Test Connections:**

Before fully reassembling the dashboard, reconnect the vehicle's battery. Turn on the ignition and test the stereo's functionality (power, audio from all speakers, radio, etc.).

#### 6. **Secure and Reassemble:**

Once all functions are verified, carefully route and secure all wiring to prevent pinching or interference. Reinstall the stereo unit and any removed dashboard components.

## OPERATING INSTRUCTIONS

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The IMC Audio Aftermarket Wire Harness is a passive component designed to facilitate electrical connections. Its operation is directly tied to the functionality of the connected Clarion stereo unit and your vehicle's electrical system.

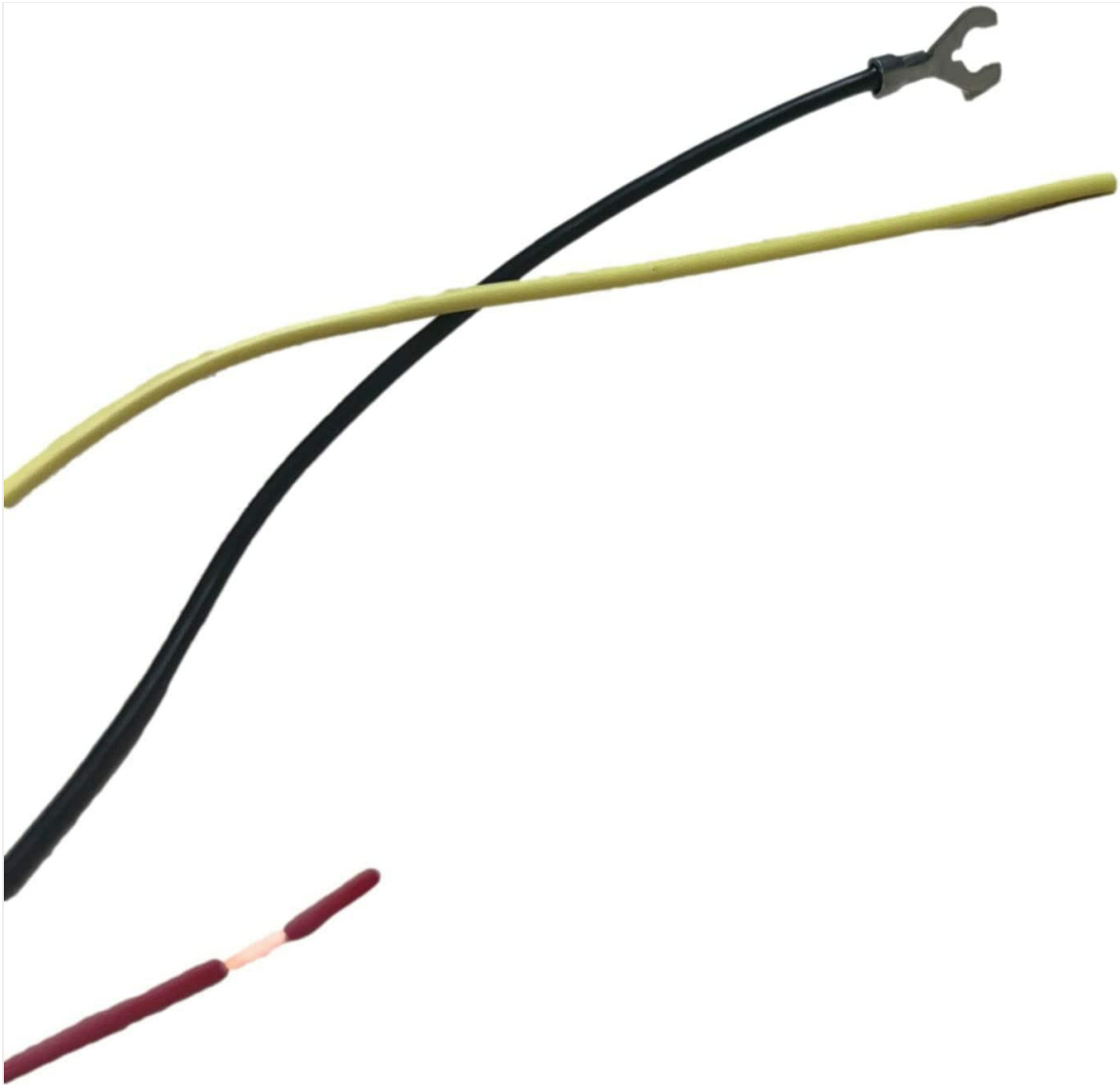
Once properly installed, the harness enables the stereo to receive power, ground, and transmit audio signals to the speakers. Refer to your Clarion stereo's instruction manual for specific operating procedures of the stereo itself.

## MAINTENANCE

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The IMC Audio Aftermarket Wire Harness requires minimal maintenance. Once installed correctly, it is designed for long-term reliability.

- **Periodic Inspection:** If you experience issues with your stereo's power or audio, a visual inspection of the harness connections may be performed by a qualified technician. Ensure all connections remain secure and free from corrosion.
- **Cleaning:** Keep the area around the stereo and wiring free from excessive dust or moisture.
- **Fuse:** The harness includes a 15 Amp fuse for protection. If the stereo loses power, check this fuse first. Replace with a fuse of the same rating (15 Amp) if blown.



*Image: Close-up of the integrated 15 Amp fuse on the IMC Audio wire harness, providing overcurrent protection.*

## TROUBLESHOOTING

If you encounter issues after installing the wire harness, consider the following troubleshooting steps:

- **No Power to Stereo:**
  - Check the vehicle's battery connection.
  - Verify the 15 Amp fuse on the IMC Audio harness. Replace if blown.
  - Ensure the yellow (constant 12V) and red (switched 12V) wires are correctly connected and receiving power. Use a multimeter to test for voltage.
  - Confirm the black (ground) wire has a secure connection to a chassis ground.
- **No Sound from Speakers:**
  - Check all speaker wire connections (e.g., White, Gray, Green, Violet and their black-striped

counterparts) for proper polarity and secure contact.

- Ensure the stereo's fader and balance settings are correctly adjusted.
- Verify that the stereo itself is functioning correctly (e.g., try a different audio source).

- **Intermittent Power/Sound:**

- Inspect all wire connections for looseness or poor insulation.
- Check for any pinched or damaged wires.

- **Stereo Does Not Turn Off with Ignition:**

- Verify that the red (switched 12V) wire is connected to a true ignition-switched power source in your vehicle.

If problems persist after performing these checks, it is recommended to consult a professional car audio installer.

## SPECIFICATIONS

| Feature              | Detail  |
|----------------------|---|
| Model Number         | CLA-3-1   |
| Brand                | IMC Audio   |
| Compatibility        | Select Clarion Stereos (NX509, NX404, NX405, NX409, NX500, NX501, NX605, NX700, NX702, NX706) |
| Wire Gauge           | 18 Gauge  |
| Fuse Rating          | 15 Amp  |
| Material             | Acrylonitrile Butadiene Styrene, Plastic, CCA Wire  |
| Dimensions (Package) | 4 x 3 x 1 inches  |
| Weight (Item)        | 5 ounces  |
| UPC                  | 741754771555  |

## WARRANTY AND SUPPORT

The IMC Audio Aftermarket Wire Harness comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

**The warranty does not cover:**

- Damage caused by improper installation or misuse.
- Damage caused by accidents, abuse, or unauthorized modifications.
- Normal wear and tear.

For warranty claims or technical support, please contact IMC Audio customer service through your original point of purchase or visit the official IMC Audio website for contact information.

