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InstallGear IGDAK0

InstallGear Dual 1/0 Gauge Amp Wiring Kit - Instruction Manual

Model: IGDAK0 | Brand: InstallGear

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the installation and proper use of your InstallGear Dual 1/0 Gauge Amp Wiring Kit. This kit is designed to provide reliable power and signal transmission for dual amplifier setups in automotive audio systems. It features true specification wiring and a soft-touch jacket for enhanced flexibility and ease of installation.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your kit before beginning installation:

- 17ft Red 1/0 Gauge CCA Power Wire
- 3ft Black 1/0 Gauge CCA Ground Wire
- 6ft Red 4 Gauge CCA Power Wire
- 6ft Black 4 Gauge CCA Ground Wire
- ANL Fuse Holder with Fuse
- (2) 1/0 Gauge to 4 Gauge Distribution Blocks
- (4) 1/0 Gauge Crimp Ring Terminals
- (4) 4 Gauge Crimp Ring Terminals
- (2) 17ft RCA Cables
- 17ft Remote Wire
- 17ft 14 Gauge Speaker Wire
- 6ft Split Loom for wire management



Image 2.1: All components included in the InstallGear Dual 1/0 Gauge Amp Wiring Kit.

3. SAFETY INFORMATION

Always prioritize safety during installation. Improper wiring can lead to electrical fires, damage to equipment, or personal injury. If you are unsure about any step, consult a professional car audio installer.

- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before starting any electrical work.
- **Proper Fusing:** The included ANL fuse holder is crucial for protecting your system from overcurrent. Ensure it is installed correctly and close to the battery.
- **Secure Connections:** All connections must be tight and secure to prevent shorts and ensure optimal performance. Use appropriate crimping tools for terminals.
- **Insulation:** Protect all exposed wires and connections with electrical tape or heat shrink tubing to prevent accidental shorts.
- **Routing Wires:** Route power cables away from signal cables (RCA, speaker wire) to minimize noise interference. Avoid sharp edges and moving parts.
- **Ventilation:** Ensure amplifiers are installed in well-ventilated areas to prevent overheating.

4. SETUP AND INSTALLATION GUIDE

Follow these steps for a successful installation of your dual amplifier wiring kit:

4.1. Planning and Preparation

- Determine the mounting locations for your amplifiers, fuse holder, and distribution blocks.
- Measure the required lengths for all wires to ensure you have enough slack.
- Gather all necessary tools: wire strippers, crimpers, screwdrivers, drill, multimeter, electrical tape, zip ties.

4.2. Power Wire Installation (1/0 Gauge)

1. Disconnect the negative terminal of your vehicle's battery.
2. Route the 17ft red 1/0 gauge power wire from the battery location through the firewall into the vehicle's cabin. Use the 6ft split loom to protect the wire where it passes through metal or other abrasive surfaces.

3. Connect one end of the power wire to a 1/0 gauge crimp ring terminal.

4.3. ANL Fuse Holder Installation

1. Install the ANL fuse holder within 18 inches of the battery. Cut the 1/0 gauge power wire and connect both ends to the fuse holder.
2. Insert the provided ANL fuse into the holder.



Image 4.1: ANL fuse holder installed near the vehicle battery for circuit protection.

4.4. Ground Wire Installation (1/0 Gauge)

1. Route the 3ft black 1/0 gauge ground wire from the amplifier location to a clean, unpainted metal surface on the vehicle chassis.
2. Attach a 1/0 gauge crimp ring terminal to the end of the ground wire and secure it firmly to the chassis. Ensure a good electrical connection by scraping away any paint or rust.

4.5. Distribution Block Installation

1. Mount the two 1/0 gauge to 4 gauge distribution blocks securely near your amplifier locations.
2. Connect the main 1/0 gauge power wire from the fuse holder to the input of the first distribution block.

3. Use the 6ft red 4 gauge power wire to connect from the output of the first distribution block to the first amplifier. Repeat for the second amplifier using the second distribution block and the remaining 6ft red 4 gauge power wire.
4. Similarly, connect the main 1/0 gauge ground wire to the input of a ground distribution block (if using a separate one, or split from the main ground point). Use the 6ft black 4 gauge ground wire to connect from the output of the ground distribution block to each amplifier.



Image 4.2: Power distribution block for managing multiple amplifier connections.

4.6. RCA, Remote, and Speaker Wire Installation

1. Route the (2) 17ft RCA cables from your head unit (source) to the amplifier inputs. Keep these cables separate from power wires to prevent noise.
2. Route the 17ft remote wire from your head unit's remote output to the remote input terminal on your amplifiers. This wire turns the amplifiers on and off with the head unit.
3. Route the 17ft 14 gauge speaker wire from the amplifier outputs to your speakers. Ensure correct polarity (+ to + and - to -).

Peak Performance Power

Maximize your AMP's potential with 1/0 gauge wiring.



Image 4.3: RCA cables connecting to an amplifier for signal transmission.

4.7. Final Connections and Testing

1. Double-check all connections for tightness and proper insulation.
2. Reconnect the negative terminal of your vehicle's battery.
3. Turn on your head unit and test the audio system. Adjust amplifier gains and crossover settings as needed.

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Video 4.1: An overview of the InstallGear amplifier kit components and their general application in an audio system setup.

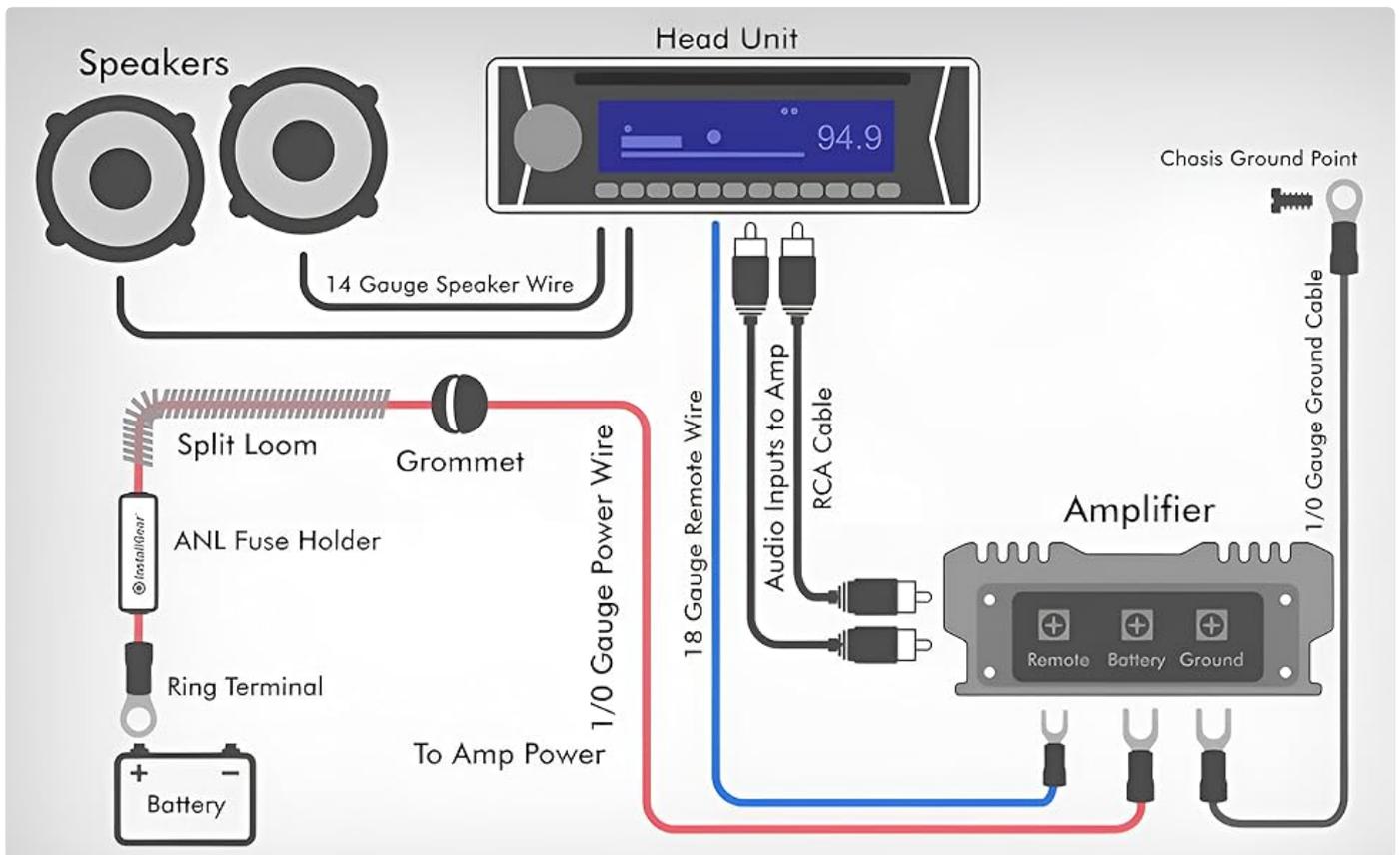


Image 4.4: General wiring diagram for a car audio amplifier installation.

5. OPERATING INSTRUCTIONS

Once installed, your amplifier wiring kit operates automatically with your vehicle's audio system. The remote wire ensures that your amplifiers power on and off in sync with your head unit, preventing battery drain. Adjust volume and audio settings through your head unit and amplifier controls as desired.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your wiring kit:

- **Inspect Connections:** Periodically check all power, ground, and signal connections for tightness and corrosion.
- **Wire Integrity:** Inspect wires for any signs of wear, fraying, or damage to the insulation. Replace damaged wires immediately.
- **Fuse Check:** If your amplifier loses power, check the ANL fuse in the fuse holder. Replace with a fuse of the same amperage rating if blown.
- **Cleanliness:** Keep the area around your amplifiers and wiring free from dust and debris.

7. TROUBLESHOOTING

If you encounter issues with your audio system after installation, consider the following common problems and solutions:

Problem	Possible Cause	Solution
No power to amplifier	Blown fuse, loose power/ground connection, faulty remote wire.	Check ANL fuse; ensure all power and ground connections are secure; verify remote wire is connected and receiving signal from head unit.
Distorted or no sound	Incorrect gain settings, loose RCA/speaker connections, incorrect amplifier settings.	Adjust amplifier gain; check RCA and speaker wire connections for tightness and correct polarity; verify amplifier crossover settings.

Problem	Possible Cause	Solution
Engine noise/whining sound	Ground loop, power/signal wires routed too close, poor ground connection.	Ensure power and signal wires are separated; verify ground connection is clean and secure; consider a ground loop isolator if necessary.

8. SPECIFICATIONS

Feature	Detail
Model Number	IGDAK0
Power Wire Gauge	1/0 Gauge (Red) & 4 Gauge (Red)
Ground Wire Gauge	1/0 Gauge (Black) & 4 Gauge (Black)
Power Wire Length	17ft (1/0 Gauge), 6ft (4 Gauge)
Ground Wire Length	3ft (1/0 Gauge), 6ft (4 Gauge)
RCA Cable Length	17ft (x2)
Remote Wire Length	17ft
Speaker Wire Gauge	14 Gauge
Speaker Wire Length	17ft
Fuse Holder Type	ANL Fuse Holder (with Fuse)
Distribution Blocks	(2) 1/0 Gauge to 4 Gauge
Material	Copper-Clad Aluminum (CCA), Plastic
Specification Met	True Spec

9. WARRANTY AND SUPPORT

For warranty information, technical support, or assistance with your InstallGear Dual 1/0 Gauge Amp Wiring Kit, please refer to the manufacturer's official website or contact their customer service department. Keep your purchase receipt for warranty claims.