

Alpine R-A60F

Alpine R-A60F R-Series 4-Channel Car Amplifier

USER INSTRUCTION MANUAL

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Alpine R-A60F R-Series 4-Channel Car Amplifier. The R-A60F is a high-performance Class-D amplifier designed to deliver powerful and clear audio output for your vehicle's sound system. It features a 4-channel configuration, capable of delivering 100 watts RMS x 4 at 4 ohms, or 150 watts RMS x 4 at 2 ohms. For higher power applications, it can be bridged to provide 300 watts RMS x 2 at 4 ohms. Key features include CTA-2006 compliance, a wide frequency response, and versatile variable high-pass, low-pass, and bandpass filters, along with selectable bass boost for optimal sound customization. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Safety Information

Always observe the following safety precautions to prevent injury or damage to the amplifier or vehicle.

- **Professional Installation Recommended:** Due to the complexity of car audio systems, professional installation is highly recommended. Incorrect wiring can lead to severe damage to the amplifier, vehicle, or personal injury.
- **Disconnect Battery:** Before beginning any wiring, always disconnect the vehicle's negative battery terminal to prevent electrical shorts and potential damage.
- **Proper Ventilation:** Ensure the amplifier is mounted in a location that allows for adequate airflow. The R-A60F is a Class-D amplifier, but it can still generate heat. Proper ventilation prevents overheating and ensures long-term performance.
- **Correct Wiring Gauge:** Use appropriate gauge power and ground wires as specified in the installation section to handle the amplifier's current draw. Undersized wiring can cause overheating and fire hazards.
- **Fuse Protection:** Always install an external fuse on the main power wire within 18 inches (45 cm) of the vehicle's battery. The fuse rating should match the amplifier's requirements.
- **Avoid Moisture:** Do not expose the amplifier to moisture or water. This can cause electrical shock or damage to the unit.
- **Secure Mounting:** Mount the amplifier securely to prevent it from becoming a projectile in the event of a sudden stop or collision.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.

Package Contents

Verify that all items are present in the package:

- Alpine R-A60F 4-Channel Car Amplifier
- Mounting Screws
- Owner's Manual (this document)
- Warranty Information

Setup and Installation

1. Physical Installation

Choose a mounting location that is dry, well-ventilated, and secure. Common locations include under a seat, in the trunk, or behind a panel. Ensure the amplifier is not exposed to direct sunlight or excessive heat.



Figure 1: Top view of the Alpine R-A60F amplifier, highlighting its compact and robust design.

Use the provided mounting screws to secure the amplifier to a solid surface. Ensure there is enough space around the amplifier for air circulation and access to wiring terminals and controls.

2. Wiring Connections

Proper wiring is crucial for optimal performance and safety. Refer to the diagram below for connection points. Always

ensure the vehicle's battery is disconnected before making any electrical connections.



Figure 2: Control panel (top) and input/output terminals (bottom) of the Alpine R-A60F amplifier.

- **Power (BATT):** Connect a high-quality power cable (e.g., 4-gauge or 8-gauge depending on total system power) from the amplifier's BATT terminal to the positive (+) terminal of the vehicle's battery. Install an inline fuse holder with the appropriate fuse rating (e.g., 60A for this amplifier) within 18 inches (45 cm) of the battery.
- **Ground (GND):** Connect a power cable of the same gauge as the BATT wire from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
- **Remote (REM):** Connect a remote turn-on wire from your head unit's remote output to the amplifier's REM terminal. This wire signals the amplifier to turn on and off with the head unit.
- **Input (RCA or Speaker Level):**
 - **RCA Inputs:** If your head unit has RCA pre-outs, connect RCA cables from the head unit to the amplifier's CH-1/2 INPUT and CH-3/4 INPUT terminals.
 - **Speaker Level Inputs:** If your head unit does not have RCA pre-outs, use the speaker-level inputs. Connect the vehicle's speaker wires directly to the amplifier's speaker-level input harness.
- **Speaker Outputs (CH-1, CH-2, CH-3, CH-4):** Connect your speakers to the corresponding speaker output terminals. Ensure correct polarity (+ to + and - to -). For bridged mode, refer to the markings on the amplifier for the correct terminals (e.g., CH-1 and CH-2 bridged, CH-3 and CH-4 bridged).

Operating the Amplifier

Controls and Adjustments

The Alpine R-A60F features a comprehensive control panel for fine-tuning your audio system. These controls are typically located on one side of the amplifier.



Figure 3: Side view of the Alpine R-A60F amplifier, illustrating the control panel for audio adjustments.

- **GAIN (Input Level):** Adjusts the input sensitivity of the amplifier to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until you hear distortion, then back off slightly. This is not a volume control.
- **FILTER (HP/LP/BP):** Selects the type of crossover filter for each channel pair.
 - **HP (High-Pass):** Allows frequencies above the set point to pass through. Useful for full-range speakers to prevent low bass distortion.
 - **LP (Low-Pass):** Allows frequencies below the set point to pass through. Essential for subwoofers.
 - **BP (Band-Pass):** Allows frequencies within a specific range to pass through. Useful for mid-range drivers.
- **FREQ (Frequency):** Adjusts the cutoff frequency for the selected filter (HP, LP, or BP). The R-A60F offers a frequency response of 15 to 30,000 Hz.
- **BASS BOOST (0, 6, or 12 dB at 50 Hz):** Selectable bass boost for rear channels to enhance low-frequency output. Use sparingly to avoid distortion.

- **INPUT LEVEL (HI/LO):** Switch to select between high (speaker-level) or low (RCA) input sensitivity. Ensure this matches your input connection type.

After making adjustments, listen to your audio system to ensure balanced sound and clarity. It is recommended to make small adjustments and re-evaluate the sound quality.

Maintenance

The Alpine R-A60F amplifier is designed for durability and requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's cooling fins and surrounding area remain free of obstructions to allow for proper heat dissipation.
- **Wiring Inspection:** Annually inspect all wiring connections for tightness and corrosion. Loose or corroded connections can lead to poor performance or damage.
- **Environmental Protection:** Avoid exposing the amplifier to extreme temperatures, direct sunlight, or excessive moisture.

Troubleshooting

If you experience issues with your Alpine R-A60F amplifier, consult the table below for common problems and solutions.

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse; Loose power/ground/remote wire; Faulty head unit remote output.	Check and replace fuses (amplifier and inline); Verify all power, ground, and remote connections are secure; Test head unit remote output.
No Sound Output	Incorrect input level setting; Loose RCA/speaker input cables; Speaker wires disconnected; Amplifier in protect mode.	Ensure INPUT LEVEL switch matches input type (HI/LO); Check all input and speaker connections; Verify amplifier is not in protect mode (power cycle, check for overheating).
Distorted Sound	Gain set too high; Incorrect crossover settings; Speaker impedance mismatch; Damaged speakers.	Reduce GAIN setting; Adjust FILTER and FREQ settings; Ensure speaker impedance is within amplifier's supported range (4 or 2 ohms); Inspect speakers for damage.
Amplifier Overheating	Insufficient ventilation; Impedance too low; Prolonged high volume use.	Ensure proper airflow around amplifier; Verify speaker impedance is not below 2 ohms per channel or 4 ohms bridged; Reduce volume or allow amplifier to cool.
Engine Noise / Whining	Poor ground connection; RCA cables too close to power wires; Ground loop.	Verify ground connection is clean and secure; Reroute RCA cables away from power wires; Install a ground loop isolator if necessary.

Specifications

Technical specifications for the Alpine R-A60F R-Series 4-Channel Car Amplifier:

Feature	Detail
Model Number	R-A60F
Amplifier Type	Class-D, 4-Channel
RMS Power Output (4 Ohms)	100 watts RMS x 4
RMS Power Output (2 Ohms)	150 watts RMS x 4
RMS Power Output (Bridged 4 Ohms)	300 watts RMS x 2
Frequency Response	15 - 30,000 Hz (+0/-1 dB)
Crossover Filters	Variable High-Pass, Low-Pass, Bandpass
Bass Boost	Selectable (0, 6, or 12 dB at 50 Hz) on rear channels
Input Sensitivity	Preamp and Speaker-Level Inputs
CTA-2006 Compliant	Yes
Dimensions (L x W x H)	14 x 11 x 6 inches (approximate)
Weight	8 pounds
Operating Voltage	14.4 Volts (DC)

Warranty and Support

Alpine products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Alpine website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or service inquiries, please contact Alpine customer support through their official website or authorized service centers. You can find contact information and additional resources at the [Alpine USA website](#).



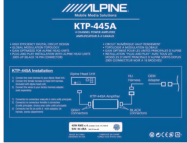


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Related Documents - R-A60F




[Alpine R2-A60F Next-Gen R-Series 4-Channel Amplifier | Hi-Res Audio](#)

Explore the Alpine R2-A60F, a powerful 4-channel amplifier from the Next-Gen R-Series, featuring Hi-Res Audio certification, a compact design, and advanced technology for superior vehicle sound.

	<p>Alpine R2-A75M & R2-A60F Power Amplifier User Manual</p> <p>Comprehensive user manual for Alpine R2-A75M Mono Power Amplifier and R2-A60F 4 Channel Power Amplifier. Includes installation, connection diagrams, safety guidelines, switch settings, and technical specifications.</p>
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	<p>Alpine KTP-445A 4-Channel Power Amplifier Installation Guide</p> <p>Installation instructions and specifications for the Alpine KTP-445A 4-Channel Power Amplifier, designed for plug-and-play integration with Alpine Head Units.</p>
	<p>Alpine MRV-M500 MRV-F300 Car Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for Alpine MRV-M500 Mono Power Amplifier and MRV-F300 4 Channel Power Amplifier, covering installation, connections, settings, specifications, and safety.</p>
	<p>Alpine PDX-F6/F4 4 Channel Power Amplifier Owner's Manual</p> <p>This manual provides instructions for the installation, operation, and specifications of the Alpine PDX-F6 and PDX-F4 4-channel power amplifiers. It includes safety precautions, connection diagrams, switch settings, and troubleshooting tips.</p>

Documents - Alpine – R-A60F

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[pdf] User Manual Owner's Manual Instructions

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They contain instructions on how to use this product in a safe and effective manner Alpine cannot be responsible for problems resulting from failure observe the manual WARNING This symbol means important Failure heed them can result serious injury or death OM A75M support products documents OWNER S MANUAL Please read before using equipment MODE D EMPLOI Veuillez lire avant d utiliser cet appareil DE OPERACIÓN Léalo antes de utilizar este equipo 1 7 Yukigaya Otsukamachi Ota ku Tokyo 145 0067 JAPAN Phone 03 5499 4531 19145 Gramercy Place Torrance California 90501 U FOR CAR USE ONLY/POUR APPLICATION AUTOMOBILE/PARA USO EN AUTOMVILES EN FR R-A75M ES MONO POWER AMPLIFIER **R-A60F** 4 CHANNEL POWER AMPLIFIER OWNER S MANUAL Please read before using this equipment. MODE D EMPLOI Veuillez lire avant d utiliser cet appareil. MANUAL DE OPERACIN Lalo antes de ut...

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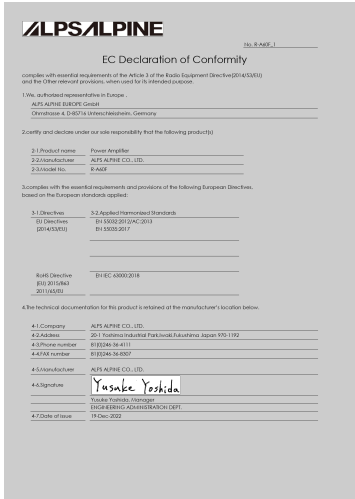


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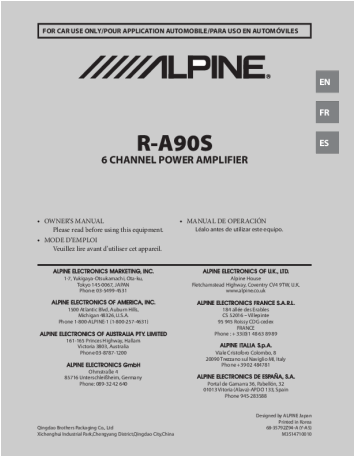


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Model	Description	Price
VAIZDO KAMEROS HCE C1100 HDR	Rear view camera RCA	100 00 €
C2100RD	Direct C2100RD Kainininkas alpine electronics	100 00 €
ILX-W690D	ILX-W690D ILX-W650BT ILX-702D	100 00 €
ILX-F903D	ILX-F903D ILX-W611D ILX-W720D	100 00 €
INE-W611D	INE-W611D ILX-W720D I ... 0IR	100 00 €
RVC-R200	RVC-R200 RVC-R800 DVR-C310S	100 00 €
DVR-C320S	DVR-C320S RVC-C310 RVC-C320 PDP-E802DSP	100 00 €
X-A90M	X-A90M X-A70F X-A90V R-A75M	100 00 €
R-A60F	R-A60F R-A90S S-A60M S-A32F S-A55V	100 00 €
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[pdf] Installation Guide

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R2-A60F Alpine Next-Gen R-Series 4-Channel Amplifier PRODUCT OVERVIEW

Experience the impressive pow ... Footprint - The R2-A60F features a reduced footprint that s 15 smaller than the previous model **R-A60F** , making it easier than ever to install in most vehicle applications while still getting the ...

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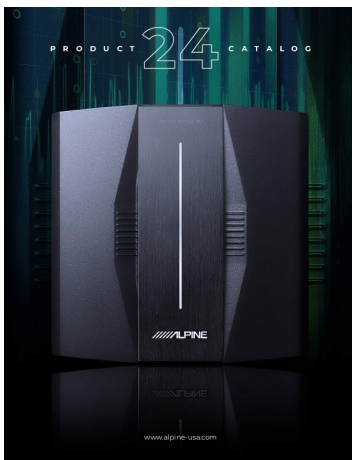
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