

JL AUDIO® RD900/5+ 5-CHANNEL AMPLIFIER

Installation Instructions	2
Instructions d'installation	7
Istruzioni di installazione	12
Installationsanweisungen	18
Instrucciones de instalación	24
Instruções de instalação	30
安裝指示	36



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M/N: RD900/5+



JL Audio® RD900/5+ 5-Channel Amplifier Installation Instructions

Important Safety Information

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

This device must be installed according to these instructions. Failure to install this device in accordance with these instructions could result in serious personal injury, damage to the device and/or vehicle, or poor product performance.

To avoid possible serious personal injury or damage to the device and vehicle, disconnect the power supply to the vehicle's audio system before beginning to install the device.

Continuous exposure to sound pressure levels over 100 dBA may cause permanent hearing loss. The volume is typically too loud if you cannot hear people speaking around you. Limit the amount of time you listen at high volume. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked.

⚠ CAUTION

To avoid possible personal injury, always wear safety goggles, ear protection, and a dust mask when drilling, cutting, or sanding.

NOTICE

Do not use copper-clad aluminum (CCA) wire for this installation. CCA wire is more prone to breaking in this environment, and its use could also result in poor product performance.

When drilling or cutting, always check what is on the opposite side of the surface to avoid damaging the vehicle.

It is strongly recommended that you have your audio system installed by a professional installer to ensure optimum performance.

You must read all installation instructions before beginning the installation. If you experience difficulty during the installation, go to support.garmin.com for product support.

Tools Needed

- 80 A inline fuse or circuit breaker
- Drill and drill bits
- Flat screwdriver
- Wire cutter
- Wire stripper
- Power cable (,)
- Speaker wire (,)
- 20 AWG (0.52 mm²) wire for the amplifier turn-on signal (optional)
- Dual RCA cable (1 per channel pair, for stereo speakers) (,)
- Single RCA cable and RCA splitter (1 per channel pair, for mono output or bridged output for speakers) (,)
- Mounting screws appropriate for the mounting surface (not included)
- Cable ties (optional)

Mounting Considerations

⚠ CAUTION

In high ambient temperatures and after extended use, the device enclosure may reach temperatures deemed dangerous to touch. Therefore, to avoid personal injury, you must install the device in a location where it will not be touched during operation.

NOTICE

This device should be mounted in a location that is not exposed to extreme temperatures or conditions. The temperature range for this device is listed in the product specifications (,). Extended exposure to temperatures exceeding the specified temperature range, in storage or operating conditions, may cause device failure. Extreme-temperature-induced damage and related consequences are not covered by the warranty.

This device is designed for installation only in a dry location. Installing this device in a location where it may come in contact with water or become submerged may result in damage. Water damage is not covered by the warranty.

- You must mount the device in a location that does not interfere with the fuel tank or electrical wiring.
- You must mount the device in a location where it is not exposed to water.
- You must mount the device in a location with adequate ventilation where it is not exposed to extreme temperatures.
- If you mount the device in an enclosed space, you should install a cooling fan with appropriate ducts to aid in airflow.
- You should mount the device so that the cables can be connected easily.

Mounting the Amplifier

Before you mount the amplifier, you must select a mounting location and purchase screws or other hardware suitable for the mounting surface.

NOTE: Screws are not included with the amplifier.

- 1 Using the included 2.5 mm hex key, remove the amplifier's top cover panel.
- 2 Place the amplifier in the mounting location, and mark the location of the pilot holes.
- 3 Remove the amplifier, and drill the pilot holes.
- 4 Secure the amplifier to the mounting location using the purchased hardware.
- 5 Using the included 2.5 mm hex key, install the amplifier's top cover panel.
- 6 Remove the adhesive backing from the logo badge and attach it to the top cover panel.

Connection Considerations

⚠ WARNING

The wiring (not included) from the battery to the amplifier must run through an inline fuse or circuit breaker (not included) as close to the battery as possible. You must connect the positive wire to the fuse or circuit breaker. Connecting the amplifier to power without an inline fuse or circuit breaker may result in a fire, potentially causing serious personal injury or property damage.

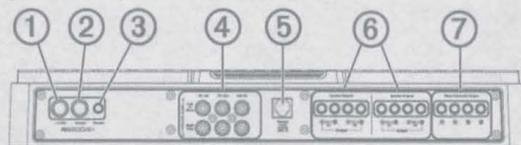
NOTICE

You must turn off the audio system before making any connections to the amplifier. Failure to turn off the audio system may result in damage to the audio system.

All terminals and connections must be protected from contact with the vehicle chassis and with each other. Improper terminal or wire contact may result in damage to the audio system.

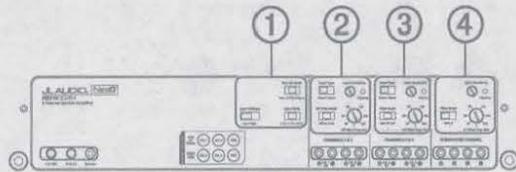
- You must first connect the amplifier to ground before making any other wiring connections (,).
- You must connect the positive wire to the battery only after you have completed all other wiring to the amplifier.

Power, Inputs, and Speaker Port Identification



①	+12 VDC
②	Ground
③	Remote
④	RCA input ports
⑤	Remote Level Control (RBC-1) port
⑥	Speaker outputs
⑦	Mono subwoofer outputs

Settings Panel Identification



① Setup switches	<ul style="list-style-type: none"> Input Voltage: Sets the voltage range for the amplifier's inputs. Turn On Mode: Sets the method used to turn on the amplifier. Input Mode: Sets which input channels send signals to the amplifier channels.
② Channel 1 and 2 settings	<ul style="list-style-type: none"> Input Type: Sets how the input signals are sent to the amplifier's outputs. Input Sensitivity: Sets the input sensitivity for the channel pair. HP Filter Mode: Sets the filter mode for the channel pair. HP Filter Freq. (Hz): Sets the filter frequency for the channel pair.
③ Channel 3 and 4 settings	<ul style="list-style-type: none"> Input Type: Sets how the input signals are sent to the amplifier's outputs. Input Sensitivity: Sets the input sensitivity for the channel pair. Filter Mode: Sets the filter mode for the channel pair. HP Filter Freq. (Hz): Sets the filter frequency for the channel pair.
④ Subwoofer channel settings	<ul style="list-style-type: none"> Input Sensitivity: Sets the input sensitivity for the channel. Filter Mode: Sets the filter mode for the channel. LP Filter Freq. (Hz): Sets the low pass filter frequency for the subwoofer channel.

Connecting to Power

NOTICE

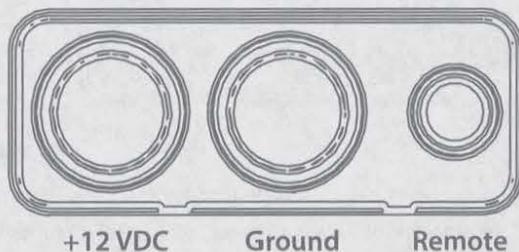
You must not connect the power wire to the amplifier and battery or circuit breaker before you complete all of the other connections. Connecting the amplifier to power before you complete all of the other connections may cause damage to your audio system.

Before connecting to power, you must complete all of the other connections to the stereo and speakers (,).

You must connect the power wire to the battery through an in-line fuse or a circuit breaker.

You must use the appropriate-gauge wire (not included) to connect the amplifier to power and ground, based on the total amperage and the length of the cable run (,).

- Route the appropriate-gauge wire to the amplifier and to a ground location.
- Using the included 2.5 mm hex key, connect the ground wire to the **Ground** terminal on the amplifier.



- Connect the other end of the ground wire to the ground location on the vehicle.
- Route the appropriate-gauge wire to the amplifier and to the vehicle battery, and select an option:
 - Install a properly rated in-line fuse on the power wire as close to the battery as possible.
 - Identify or install a circuit breaker, as close to the battery as possible, for use with the amplifier power wire.

Connecting the Turn-On Wire

NOTICE

You should connect the turn-on wire only if you are using the Rem. method to turn the amplifier on and off (,).

- If your stereo has an amplifier turn-on wire, route a 20 AWG (0.52 mm²) wire from the amplifier turn-on wire on the stereo to the amplifier.
- Using the included 2.5 mm hex key, connect the 20 AWG (0.52 mm²) wire to the **Remote** terminal on the amplifier.

Turn On Options

You can switch the amplifier on and off using one of three methods, depending on the position of the Turn On Mode switch.

Rem.: This is the preferred method for controlling the amplifier. The amplifier turns on when +12 VDC is present at its Rem. input and turns off when +12 VDC is switched off (,).

Offset: The amplifier turns on by detecting the presence of small DC signal in OEM audio outputs and turns off after the signal is removed.

NOTE: This circuit is designed to detect high-level speaker signals from the CH. 1 (L) input only.

Signal: The amplifier turns on by detecting full range signals in OEM audio outputs and turns off after the signal is removed (within 30 seconds).

NOTE: This circuit is designed to detect high-level (speaker) signals from the CH. 1 (L) input only.

Power Cable Gauge Guide

You should use 4 AWG (21.1 mm²) wire for most installations. If your total amperage is higher than 85 A, and your cable run is longer than 10 to 13 ft. (3 to 4 m), you can use these tables to determine if you need to use a larger gauge of wire. If your installation requires 2 AWG (33.6 mm²) or larger wire, you may need to use a distribution block (not included). This table accounts for terminal connection resistance.

NOTICE

Only use oxygen-free copper (OFC) wire or tinned copper wire for the amplifier's power and ground connections. Do not use copper-clad aluminum (CCA) wire for this installation. CCA wire is more prone to breaking in this environment, and its use could also result in poor product performance.

Total Amperage	0 to 4 ft. (0 to 1.2 m)	4 to 7 ft. (1.2 to 2.1 m)	7 to 10 ft. (2.1 to 3 m)	10 to 13 ft. (3 to 4 m)
50 to 65 A	6 AWG (13.3 mm ²)			
65 to 85 A	6 AWG (13.3 mm ²)	6 AWG (13.3 mm ²)	6 AWG (13.3 mm ²)	4 AWG (21.1 mm ²)
85 to 105 A	4 AWG (21.1 mm ²)	4 AWG (21.1 mm ²)	4 AWG (21.1 mm ²)	2 AWG (33.6 mm ²)
105 to 125 A	4 AWG (21.1 mm ²)	4 AWG (21.1 mm ²)	4 AWG (21.1 mm ²)	2 AWG (33.6 mm ²)
125 to 150 A	2 AWG (33.6 mm ²)	2 AWG (33.6 mm ²)	2 AWG (33.6 mm ²)	0 AWG (53.5 mm ²)

Total Amperage	13 to 16 ft. (4 to 4.9 m)	16 to 19 ft. (4.9 to 5.8 m)	19 to 22 ft. (5.8 to 6.7 m)	22 to 28 ft. (6.7 to 8.5 m)
50 to 65 A	4 AWG (21.1 mm ²)	4 AWG (21.1 mm ²)	4 AWG (21.1 mm ²)	2 AWG (33.6 mm ²)
65 to 85 A	2 AWG (33.6 mm ²)	2 AWG (33.6 mm ²)	2 AWG (33.6 mm ²)	0 AWG (53.5 mm ²)
85 to 105 A	2 AWG (33.6 mm ²)	2 AWG (33.6 mm ²)	2 AWG (33.6 mm ²)	0 AWG (53.5 mm ²)
105 to 125 A	0 AWG (53.5 mm ²)			
125 to 150 A	0 AWG (53.5 mm ²)			

Signal and Speaker Connection Considerations

When connecting your stereo and speakers to the amplifier, observe these considerations.

- You can send signals to the amplifier using two, four, or six RCA inputs (,).
- You can connect either line outputs or speaker outputs from the stereo to the RCA inputs on the amplifier.
- The amplifier's input section accommodates a wide range of signal input voltages (200 mV to 8 V), split into two ranges (,).
- Each output channel supports a nominal 4 ohm speaker load impedance, and a 2 ohm minimum speaker load impedance.
- You can connect two speakers in parallel on a single channel, and the combined impedance must be greater than the 2 ohm minimum load impedance (,).
- You should use the proper gauge speaker wire to connect speakers and subwoofers to the amplifier (,).
- You should observe the polarity markings for each channel when connecting speakers to the amplifier.
- If you are connecting a subwoofer to the amplifier, you should connect it to Mono Subwoofer Output. This output can be operated with a dedicated low-pass filter and has an optional remote level control.
- If you are connecting a dedicated midrange or midbass speaker to the amplifier, you should connect it to the CH. 3 and CH. 4 outputs. These outputs can be operated with a dedicated high-pass or bandpass filter.

Speaker Wire Gauge Guide

You should use 16 AWG (1.3 through 1.5 mm²) oxygen-free copper (OFC) speaker wire. You can use these tables to determine if you need to use a larger gauge of wire. These tables account for terminal connection resistance.

NOTICE

Do not use copper-clad aluminum (CCA) wire for this installation. CCA wire is more prone to breaking in this environment, and its use could also result in poor product performance.

4 Ohm Load (1 Speaker)

Distance between the amplifier and speaker	Wire gauge
From 0 to 28 ft. (from 0 to 8.5 m)	16 AWG (1.3 through 1.5 mm ²)
From 28 to 69 ft. (from 8.5 to 21 m)	12 AWG (3 through 4 mm ²)

2 Ohm Load (2 Speakers in Parallel)

Distance between the amplifier and speaker	Wire gauge
From 0 to 14 ft. (from 0 to 4 m)	16 AWG (1.3 through 1.5 mm ²)
From 14 to 35 ft. (from 4 to 10.5 m)	12 AWG (3 through 4 mm ²)

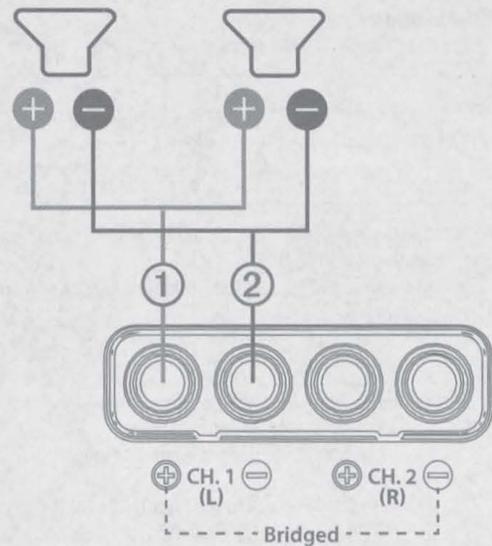
Connecting Multiple Speakers or Subwoofers in Parallel

You can connect multiple speakers or subwoofers with the same impedance rating, model number, and type together in parallel. When connecting speakers of the same impedance rating in parallel, you must calculate the total impedance by dividing the common impedance rating by the total number of speakers connected in parallel. For example, if you connect two 4 ohm speakers in parallel, the resulting impedance is 2 ohms ($4 \div 2 = 2$).

NOTICE

You must not connect multiple speakers with a combined impedance of less than 2 ohms to a single channel on the amplifier, because doing so could cause poor product performance or damage the amplifier.

- 1 Connect speaker wire ① to the positive terminal of an output channel on the amplifier.



- 2 Connect speaker wire to the positive terminal on each speaker.
- 3 Connect the wires from the positive terminals on both speakers in the channel to the wire connected to the positive terminal on the amplifier.
- 4 Repeat this procedure for the negative terminal on the amplifier ② and both speakers in the channel.

Connecting a Speaker or Subwoofer in Bridged Mode

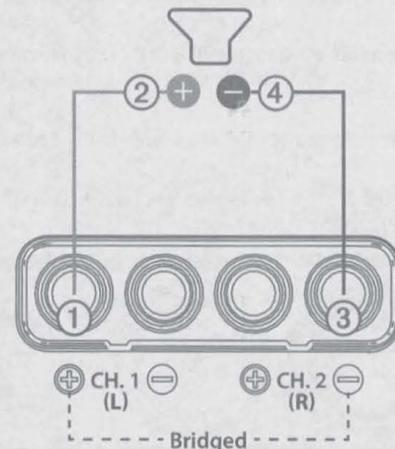
Connecting a speaker or subwoofer in bridged mode increases the amount of power that can be delivered by combining two output channels together. This is beneficial for large subwoofers that move large volumes of air and for playing speakers louder without experiencing clipping in the audio. When two output channels are in bridged mode, the output is in mono (only one channel).

NOTICE

A speaker connected in bridged mode must be capable of handling the increased output power. Bridged mode can produce more than double the output power of a single channel.

You should connect only a 4 ohm load to the bridged terminals of a channel pair. Connecting a 2 ohm load to the bridged terminals may cause damage to the amplifier, speaker, or subwoofer.

- 1 Connect speaker wire to the amplifier's positive terminal of the channel 1 output ①.

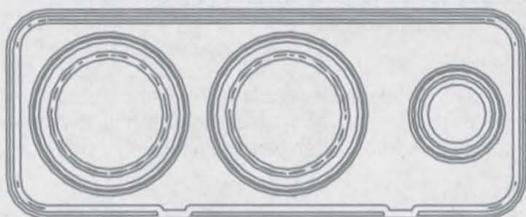


- 2 Connect the other end of the speaker wire to the positive terminal on the speaker or subwoofer ②.
- NOTE:** The bridged terminals for a channel pair are connected with a dashed line and labeled Bridged for easy identification.
- 3 Connect speaker wire to the negative terminal of the channel 2 output ③.
 - 4 Connect the other end of the speaker wire to the negative terminal on the speaker or subwoofer ④.

Completing the Connections

Before you connect the amplifier to the power source, you must complete all other connections to the amplifier.

- 1 Verify all speaker wires are connected to the speakers and the amplifier.
- 2 Verify all RCA cables are connected to the amplifier and the stereo.
- 3 Verify the ground cable is connected to the amplifier and the battery (,).
- 4 If you are using an amplifier turn-on wire, verify the amplifier turn-on wire is connected to the amplifier and to the amplifier turn-on wire from the stereo or a dedicated switch (,).
- 5 Using the included 2.5 mm hex key, connect the power wire to the +12 VDC terminal on the amplifier.



+12 VDC Ground Remote

- 6 Select an option:
 - Connect the other end of the power wire, through the in-line fuse, to the battery.
 - Connect the other end of the power wire to the appropriate circuit breaker.

Configuring the Amplifier

Before you can configure the amplifier for any connected speakers and subwoofers, you must make all power, speaker, and stereo connections.

Amplifier Configuration Controls

Each amplifier section has a set of controls you must use to configure the sound for the speakers connected to that section (,).

Dial or Switch	Function
Input Voltage	<p>Sets the voltage range for the amplifier's inputs.</p> <p>Low: Sets the input sensitivity range from 200 mV to 2 V.</p> <ul style="list-style-type: none"> • For use with an aftermarket stereo, with conventional preamp level (RCA) outputs. <p>High: Sets the input sensitivity range from 800 mV to 8 V.</p> <ul style="list-style-type: none"> • For use with high-output, preamp level (RCA) signals, as well as high-level (speaker) signals from an OEM stereo system or a small amplifier. • To use with speaker level signals, you must splice the speaker output wires onto a pair of RCA cables or plugs.
Turn On Mode	<p>Sets the method used to turn on the amplifier.</p> <p>Rem.: This is the preferred method for controlling the amplifier. The amplifier turns on when +12 VDC is present at its Remote terminal and turns off when the +12 VDC is switched off. (,)</p> <p>Offset: The amplifier turns on when it detects a small DC signal in OEM audio outputs and turns off after the signal is removed.</p> <ul style="list-style-type: none"> • This circuit is designed to detect high-level (speaker) signals from the CH. 1 input only. <p>Signal: The amplifier turns on when it detects a full-range signal in OEM audio outputs and turns off after the signal is removed (within 30 seconds).</p> <ul style="list-style-type: none"> • This circuit is designed to detect high-level (speaker) signals from the CH. 1 input only.

Dial or Switch	Function
Input Mode	<p>Sets which input channels send signals to the amplifier channels.</p> <p>2 Ch.: Select when using the CHANNELS 1 & 2 inputs only.</p> <ul style="list-style-type: none"> • The CH. 1 input signal feeds the CH. 3 output. • The CH. 2 input signal feeds the CH. 4 output. • The Mono Subwoofer Output is the sum of the CHANNELS 1 & 2 input signals. <p>4 Ch.: Select when using the CHANNELS 1 & 2 and CHANNELS 3 & 4 inputs only.</p> <ul style="list-style-type: none"> • The Mono Subwoofer Output is the sum (non-fading) of the CHANNELS 1 & 2 and CHANNELS 3 & 4 input signals. <p>6 Ch.: Select when using all six inputs.</p> <ul style="list-style-type: none"> • The SUBWOOFER CHANNEL inputs accept stereo or mono signals. • If only one subwoofer channel signal is available, an RCA splitter is recommended to feed both SUBWOOFER CHANNEL inputs.
Input Type	<p>Sets how the input signals are sent to the amplifier's outputs.</p> <p>Stereo: Select to send signals from both left and right inputs to their respective outputs.</p> <p>Mono: Select to send a signal from only the left input to both outputs without using an RCA splitter.</p> <ul style="list-style-type: none"> • This is useful when sending a single mono signal to both outputs of a channel pair or to a bridged channel pair.
Input Sensitivity	<p>Adjusts the input section of each channel pair to match the output voltage of the input signals (,).</p> <ul style="list-style-type: none"> • Rotate clockwise for higher sensitivity (louder) for a given input voltage. • Rotate counter-clockwise for lower sensitivity (quieter) for a given input voltage.
Clipping	<p>Each Input Sensitivity control is equipped with a Clipping LED to simplify the input sensitivity setting process (,).</p>
HP Filter Mode	<p>Sets the mode for the active filter.</p> <p>Off: The filter is off and passes all frequencies present at the inputs.</p> <p>x1: The high-pass filter attenuates frequencies below the HP Filter Freq. (Hz) dial, at a rate of 12 dB/octave.</p> <p>x10: The high-pass filter attenuates frequencies ten times higher than below the CHANNELS 1 & 2 HP Filter Freq. (Hz) dial, at a rate of 12 dB/octave.</p>
Filter Mode	<p>Sets the mode for the active filter.</p> <p>Off: The filter is off and passes all frequencies present at the inputs.</p> <p>HP: The high-pass filter attenuates frequencies below the HP Filter Freq. (Hz) dial, at a rate of 12 dB/octave.</p> <p>BP: The bandpass filter attenuates frequencies below the CHANNELS 3 & 4 filter frequency dial and above the CHANNELS 1 & 2 filter frequency setting, at a rate of 12 dB/octave.</p> <ul style="list-style-type: none"> • The Input Mode switch must be set to 2 Ch. <p>LP: The low-pass filter attenuates frequencies above the LP Filter Freq. (Hz) dial, at a rate of 12 dB/octave.</p>
HP Filter Freq. (Hz)	<p>Adjusts the cutoff frequency of the active filters for CHANNELS 1 & 2 and CHANNELS 3 & 4.</p> <p>x1/HP/BP: Adjustable from 50 Hz to 500 Hz.</p> <p>x10: Adjustable from 500 Hz to 5,000 Hz.</p>
LP Filter Freq. (Hz)	<p>Adjusts the cutoff frequency of the subwoofer channel's low-pass active filter from 50 Hz to 500 Hz, at a rate of 12 dB/octave.</p>
Remote Level Control (RBC-1)	<p>Use with the optional RBC-1 remote bass controller to adjust the subwoofer channel's volume remotely.</p> <p>When connected to the amplifier, the RBC-1 operates strictly as a level attenuator:</p> <ul style="list-style-type: none"> • At full counter-clockwise rotation, the subwoofer channel level mutes completely. • At full clockwise rotation, the subwoofer channel level is the same as if the RBC-1 was not connected at all.

Setting the Input Sensitivity Level

NOTICE

Do not increase the Input Sensitivity settings in the system beyond the maximum level established during this procedure. Doing so will result in audible distortion and possible speaker damage.

Tools Needed

- Sine wave test tone recorded at 0 dBFS reference level in the frequency range to be amplified.

Do not use attenuated test tones (such as -10 dB or -20 dB).

Full range channel applications: 1 kHz

Subwoofer channel applications: 50 Hz

- Depending on your source unit, the sine wave may be played from a CD, USB thumb drive, or a portable media player. You must disable all EQ/DSP modes on your portable media player during level setting.

You can adjust the input sensitivity of each amplifier channel or channel pair to achieve overall system balance.

- Disconnect the speakers from the amplifier's speaker outputs.
- Turn off all processing (such as bass/treble, loudness, or EQ) on the source unit, any processors used, and the amplifier.
- Set the fader control to the center position, and set the subwoofer level control to $\frac{3}{4}$ of maximum, if used.
- Set the Input Voltage switch to **Low**.
- Turn all three **Input Sensitivity** controls down completely (full counter-clockwise turn).
- Set the source unit volume to $\frac{3}{4}$ of full volume to allow for reasonable gain overlap with moderate clipping at full volume.
- Verify that you have disconnected the speakers.
- Play a track with an appropriate sine wave (within the frequency range to be amplified) at $\frac{3}{4}$ of the source unit volume.
- For the first **Input Sensitivity** control, complete an action:
 - If the **Clipping** LED is solidly illuminated while the **Input Sensitivity** control is turned down completely, move the Input Voltage switch to the **High** position. Slowly increase the control level until the **Clipping** LED is solidly illuminated, indicating maximum, unclipped output.
 - If the **Clipping** LED is not solidly illuminated while the **Input Sensitivity** control is turned down completely, slowly increase the control level until the **Clipping** LED is solidly illuminated, indicating maximum, unclipped output.
- Repeat the previous step for the remaining two **Input Sensitivity** controls.
- After you have adjusted each channel section to its maximum low-distortion output level, reconnect the speakers.

You can adjust the Input Sensitivity controls downward if the amplifier requires attenuation to achieve the desired system balance.

If any equalizer boost is activated after you set the Input Sensitivity level, you must readjust the Input Sensitivity settings. This applies to any EQ boost circuit, including source unit tone controls or EQ circuits. EQ cuts do not require readjustment.

More Information

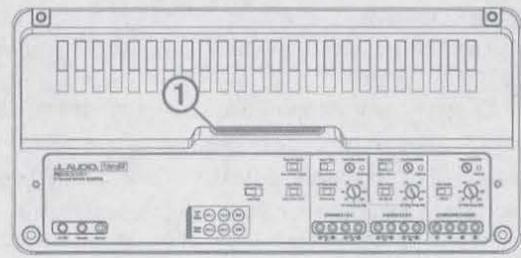
Troubleshooting

Before you contact your JL Audio® dealer or service center, you should refer to the LED information below to help diagnose the problem.

If the JL Audio amplifier has been installed by a professional installer, you should contact the installer so a technician can assess the problem and advise you about possible solutions.

LED light strip

The bi-color LED light strip ① in the top surface of the amplifier reports the amplifier's operating condition.



The LED light strip is solid blue when the amplifier is on and functioning normally.

NOTE: When the amplifier is powering up, the outputs are muted and the LED light strip turns red for 3 seconds.

The LED light strip is red

The amplifier enters self-protection mode and mutes all outputs when the safe operating temperature has been exceeded. The amplifier returns to normal operating mode when its temperature returns to a safe level.

The LED light strip is flashing

The LED light strip turns red for $\frac{1}{2}$ second when the amplifier experiences overcurrent conditions. The amplifier then attempts to restart, and the LED light strip turns blue. If the overcurrent condition continues, the LED strip turns red and the amplifier mutes the outputs again. Alternating red and blue flashes indicate a continuous overcurrent condition. Overcurrent conditions can be caused by speaker impedance that is lower than normal or a short circuit in the speaker wiring. During overcurrent conditions, the amplifier enters self-protection mode and mutes all outputs. The speakers may exhibit a repetitive ticking or thumping noise.

- Verify the speaker impedance for each output channel.
- Verify the positive and negative speaker wires are not in contact with each other.
- Verify the speaker wires are not in contact with the vehicle chassis.

The LED light strip is off

An undamaged amplifier shuts down completely only when the battery voltage or remote turn-on voltage drops below +10 VDC. If this occurs in your system, you should have your vehicle's charging system and audio system power wiring inspected.

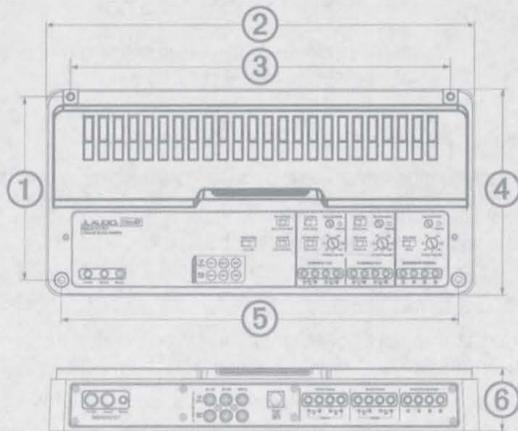
The amplifier turns on again when the voltage climbs above +11 VDC.

Specifications

Operating voltage	From 10 to 16 VDC negative ground
Operating temperature	From -20 to 65°C (from -4 to 149°F)
Amplifier class	Class D
Frequency response	Main channels: 12 Hz to 22 kHz (+0, -1 dB) Subwoofer channel: 10 Hz to 500 Hz (+0, -1 dB)
Rated power output @ 14.4 VDC input < 1% THD+N	Main channels @ 4 ohms: 70 W RMS x 4 Subwoofer channel @ 4 ohms: 225 W RMS x 1 Main channels @ 2 ohms: 100 W RMS x 4 Subwoofer channel @ 2 ohms: 500 W RMS x 1 Main channels @ 4 ohms bridged: 200 W RMS x 2
Input sensitivity	200 mV to 8 V RMS, adjustable
Input type	Differential-balanced
Signal to noise ratio (A-weighted, 20 Hz to 20 kHz noise bandwidth)	Main channels: >104 dB (referred to rated power), >84 dB (referred to 1 W) Subwoofer channel: >103 dB (referred to rated power), >83 dB (referred to 1 W)
Damping factor	Main channels: >150 @ 4 ohms/50 Hz, >75 @ 2 ohms/50 Hz Subwoofer channel: >120 @ 4 ohms/50 Hz, >60 @ 2 ohms/50 Hz
Filter type	Channels 1 and 2: Active, 12 dB/octave, high-pass Channels 3 and 4: Active, 12 dB/octave, high-pass or bandpass Subwoofer channel: Active, 12 dB/octave, low-pass

Filter frequency	Channels 1 and 2: 50 Hz to 5 kHz, adjustable Channels 3 and 4: 50 Hz to 500 Hz, adjustable Subwoofer channel: 50 Hz to 500 Hz, adjustable
Recommended fuse	80 A
Protection circuits	Input under/over voltage Over temperature Output short circuit

Dimensions



①	157 mm (6.18 in.)
②	372 mm (14.66 in.)
③	330 mm (13.00 in.)
④	177 mm (6.96 in.)
⑤	345 mm (13.59 in.)
⑥	54 mm (2.13 in.)

JL Audio® RD900/5+ 5-Channel Amplifier Instructions d'installation

Informations importantes relatives à la sécurité

⚠ AVERTISSEMENT

Consultez le guide *Informations importantes sur le produit et la sécurité* inclus dans l'emballage du produit pour prendre connaissance des avertissements et autres informations importantes sur le produit.

Cet appareil doit être installé conformément à ces instructions. Le non-respect de ces instructions d'installation est susceptible de provoquer de graves blessures, d'endommager l'appareil et/ou le véhicule ou de dégrader les performances du produit.

Pour éviter les éventuelles blessures graves et éviter d'endommager votre appareil ou votre véhicule, débranchez l'alimentation du système audio du véhicule avant d'installer l'appareil.

L'exposition prolongée à des niveaux de pression acoustique supérieurs à 100 dBA peut entraîner une perte d'audition irréversible. Le volume est généralement trop élevé si vous ne parvenez pas à entendre les personnes qui parlent autour de vous. Limitez le temps d'écoute durant lequel le volume est élevé. Si vos oreilles sifflent ou si vous entendez des sons étouffés, arrêtez l'écoute et faites contrôler votre audition.

⚠ ATTENTION

Pour éviter les blessures, portez des lunettes de protection, un équipement antibruit et un masque anti-poussière lorsque vous percez, coupez ou poncez.

AVIS

N'utilisez pas de fil en aluminium cuivré (CCA) pour cette installation. Ces fils sont plus susceptibles de se casser dans cet environnement et leur utilisation pourrait également nuire aux performances du produit.

Lorsque vous percez ou coupez, commencez toujours par vérifier ce qui se trouve sur la face opposée de la surface de montage pour éviter d'endommager le véhicule.

Pour des performances optimales, il est vivement recommandé de confier l'installation du système audio à un professionnel.

Lisez toutes les instructions d'installation avant de commencer l'installation. Si vous rencontrez des difficultés durant l'installation, rendez-vous sur le site support.garmin.com pour obtenir de l'aide sur le produit.

Outils requis

- Fusible en ligne ou disjoncteur 80 A
- Perceuse et forets
- Tournevis plat
- Pince coupante
- Dénude-fil
- Câble d'alimentation (,)
- Câble de haut-parleur (,)
- Fil 20 AWG (0,52 mm²) pour le signal d'activation de l'ampli (facultatif)
- Câble double RCA (1 par paire de canaux, pour les haut-parleurs de la chaîne stéréo) (,)
- Câble RCA simple et répartiteur RCA (1 par paire de canaux, pour une sortie mono ou une sortie pontée pour les haut-parleurs) (,)
- Vis adaptées à la surface de montage (non fournies)
- Attaches de câble (facultatif)

Considérations relatives au montage

⚠ ATTENTION

Quand la température de l'air est élevée et après une utilisation prolongée, le boîtier de l'appareil peut atteindre des températures dangereuses au toucher. Pour éviter de vous blesser, vous devez donc installer l'appareil dans un endroit où il sera à l'abri de tout contact pendant son fonctionnement.

AVIS

Installez cet appareil à un emplacement qui n'est pas exposé à des températures ou des conditions extrêmes. La plage de températures pour cet appareil est indiquée dans les caractéristiques techniques du produit (,). Une exposition prolongée à des températures dépassant la plage de températures spécifiée, pendant le stockage ou en cours de fonctionnement, peut provoquer une panne de l'appareil. Les dommages dus aux températures extrêmes et leurs conséquences ne sont pas couverts par la garantie.

Cet appareil doit être installé uniquement dans un endroit sec. Si vous l'installez dans un endroit où il pourrait être mouillé ou immergé, l'appareil risque d'être endommagé. La garantie ne couvre pas les dommages causés par l'eau.

- Vous devez installer l'appareil dans un endroit où il n'interfère pas avec le réservoir de carburant ou le câblage électrique.
- Vous devez installer l'appareil dans un endroit où il ne risque pas d'être exposé à l'eau.
- L'appareil doit être installé dans un endroit disposant d'une ventilation suffisante afin qu'il ne soit pas exposé à des températures extrêmes.
- Si vous installez l'appareil dans un endroit clos, vous devez installer un système de ventilation et les conduits nécessaires pour permettre à l'air de circuler.
- Vous devez installer l'appareil en veillant à pouvoir brancher les câbles facilement.

Installation de l'amplificateur

Avant d'installer l'amplificateur, vous devez choisir un emplacement de montage et acheter des vis ou d'autres éléments adaptés à la surface.

REMARQUE : les vis ne sont pas fournies avec l'ampli.

- 1 À l'aide de la clé hexagonale de 2,5 mm fournie, retirez le panneau supérieur de l'amplificateur.
- 2 Placez l'ampli à l'endroit choisi pour son installation, puis marquez l'emplacement des trous d'implantation.
- 3 Retirez l'ampli, puis percez les trous d'implantation.

GARMIN.



IMPORTANT SAFETY AND PRODUCT INFORMATION

WARNING

Failure to heed the following warnings could result in an accident resulting in death or serious injury.

Hearing Damage Warning

You can permanently damage your ears and lose hearing if you listen to the stereo at high volume. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked.

Product Environmental Programs

Information about the Garmin® product recycling program and WEEE, RoHS, REACH, and other compliance programs can be found at garmin.com/aboutGarmin/environment.

Declaration of Conformity

Hereby, Garmin declares that this product is in compliance with the Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: garmin.com/compliance.

UK Declaration of Conformity

Hereby, Garmin declares that this product is in compliance with the relevant statutory requirements. The full text of the declaration of conformity is available at the following internet address: garmin.com/compliance.

Consumer Limited Warranty

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER LEGAL RIGHTS, WHICH VARY FROM STATE TO STATE (OR BY COUNTRY OR PROVINCE). GARMIN DOES NOT EXCLUDE, LIMIT OR SUSPEND OTHER LEGAL RIGHTS YOU MAY HAVE UNDER THE LAWS OF YOUR STATE (OR COUNTRY OR PROVINCE). FOR A FULL UNDERSTANDING OF YOUR RIGHTS, YOU SHOULD CONSULT THE LAWS OF YOUR STATE, COUNTRY OR PROVINCE.

Non-aviation products are warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This Limited Warranty does not apply to: (i) cosmetic damage, such as scratches, nicks and dents; (ii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iii) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (iv) damage caused by service performed by anyone who is not an authorized service provider of Garmin; (v) damage to a product that has been modified or altered without the written permission of Garmin; (vi) damage to a product that has been connected to power and/or data cables that are not supplied by Garmin or damage to a product that has been connected to AC adapters and cables that are not certified by UL (Underwriters Laboratories) and are not labeled as Limited Power Source (LPS). In addition, Garmin reserves the right to refuse warranty claims against products or services that are obtained and/or used in contravention of the laws of any country. Garmin navigation products are intended to be used only as a travel aid and must not be used for any purpose requiring precise measurement of direction, distance, location or topography. Garmin makes no warranty as to the accuracy or completeness of map data.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE WARRANTIES AND REMEDIES CONTAINED IN THIS LIMITED WARRANTY ARE EXCLUSIVE AND IN LIEU OF, AND GARMIN EXPRESSLY DISCLAIMS, ALL OTHER WARRANTIES AND REMEDIES, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY REMEDY OR OTHERWISE. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER LEGAL RIGHTS, WHICH VARY FROM STATE TO STATE AND FROM COUNTRY TO COUNTRY. IF IMPLIED WARRANTIES CANNOT BE DISCLAIMED UNDER THE LAWS OF YOUR STATE OR COUNTRY, THEN SUCH WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES (AND COUNTRIES AND PROVINCES) DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL GARMIN BE LIABLE IN A CLAIM FOR BREACH OF WARRANTY FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES (AND COUNTRIES AND PROVINCES) DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

If during the warranty period you submit a claim for warranty service in accordance with this Limited Warranty, then Garmin will, at its option: (i) repair the device using new parts or previously used parts that satisfy Garmin's quality standards; (ii) replace the device with a new device or a Garmin Recertified device that meets Garmin's quality standards; or (iii) exchange the device for a full refund of your purchase price. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY. Repaired or replaced devices have a 90-day warranty. If the device sent in is still under its original warranty, then the new warranty is 90 days or to the end of the original 1-year warranty, whichever is longer.

Before seeking warranty service, please access and review the online help resources available on support.garmin.com. If your device is still not functioning properly after making use of these resources, contact a Garmin Authorized service facility in the original country of purchase or follow the instructions on support.garmin.com to obtain warranty service. If you are in the United States, you can also call 1-800-800-1020. If you seek warranty service outside of the original country of purchase, Garmin cannot guarantee that the parts and products needed to repair or replace your product will be available due to differences in product offerings and applicable standards, laws and regulations. Accordingly, Garmin may, in its sole discretion and subject to applicable laws, repair your product with comparable parts or replace your product with a comparable Garmin product (new or a Garmin Recertified replacement), or require you to ship your product to a Garmin Authorized Service facility in the country of original purchase or to a Garmin Authorized service facility in another country that can service your product, in which case you will be responsible for complying with all applicable import and export laws and regulations and for paying all custom duties, V.A.T., shipping fees and other associated taxes and charges. In some cases, Garmin and its dealers may be unable to service your product in a country outside of the original country of purchase or return a repaired or replaced product to you in that country due to applicable standards, laws or regulations in that country.

Online Auction Purchases: Products purchased through online auctions are not eligible for rebates or other special offers from Garmin warranty coverage. Online auction confirmations are not accepted for warranty verification. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required. Garmin will not replace missing components from any package purchased through an online auction.

International Purchases: A separate warranty may be provided by international distributors for devices purchased outside the United States depending on the country. If applicable, this warranty is provided by the local in-country distributor and this distributor provides local service for your device. Distributor warranties are only valid in the area of intended distribution. Devices purchased in the United States or Canada must be returned to the Garmin service center in the United Kingdom, the United States, Canada, or Taiwan for service.

Audio Warranty Policy: Certain Garmin Audio products have a longer warranty period and additional terms and conditions. Go to garmin.com/legal/audio-warranty-policy for more details and to see if your product is covered under the Garmin Audio Warranty Policy.

Marine Warranty Policies: Certain Garmin Marine products in certain areas have a longer warranty period and additional terms and conditions. Go to garmin.com/legal/marine-warranty-policy for more details and to see if your product is covered under the Garmin Marine Warranty Policies.

Australian Purchases: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits under our Limited Warranty

are in addition to other rights and remedies under applicable law in relation to the products. Garmin Australasia, 19 Hawthorne Avenue, Marsden Park, NSW 2765, Australia. Phone: 1800 235 822.

联系信息

制造厂商:

销售厂商: 上海佳明航电企业管理有限公司

联络地址: 上海市徐汇区桂平路 391 号 (新漕河泾国际商务中心 A 座 37 层)

电话: 021-60737675

客服热线: 400-819-1899

INFORMATIONS IMPORTANTES SUR LE PRODUIT ET LA SÉCURITÉ

⚠ AVERTISSEMENT

Si vous ne respectez pas les avertissements suivants, vous risquez un accident pouvant entraîner des blessures graves, voire mortelles.

Avertissement concernant la perte d'audition

L'utilisation de la chaîne stéréo à un volume élevé peut détériorer votre système auditif de manière irréversible et entraîner une perte d'audition. Si vos oreilles sifflent ou si vous entendez des sons étouffés, arrêtez l'écoute et faites contrôler votre audition.

Programmes environnementaux

Des informations relatives au programme Garmin de recyclage des produits ainsi qu'aux directives DEEE et RoHS, à la réglementation REACH et aux autres programmes de conformité sont disponibles à l'adresse garmin.com/aboutGarmin/environment.

Déclaration de conformité

Par la présente, Garmin déclare que son produit est conforme à la Directive 2014/53/EU. Le texte de la déclaration de conformité UE dans sa version intégrale est disponible sur la page Web suivante : garmin.com/compliance.

Garantie limitée s'appliquant aux utilisateurs

LA PRÉSENTE GARANTIE VOUS OCTROIE DES DROITS PARTICULIERS ET VOUS BÉNÉFICIEZ PEUT-ÊTRE D'AUTRES DROITS QUI PEUVENT VARIER D'UN ÉTAT, PAYS, OU PROVINCE À L'AUTRE. GARMIN N'EXCLUT PAS, NI NE LIMITE OU SUSPEND, LES AUTRES DROITS LÉGAUX DONT VOUS BÉNÉFICIEZ EN VERTU DU DROIT DE VOTRE ÉTAT, PAYS OU PROVINCE. POUR BIEN COMPRENDRE VOS DROITS, CONSULTEZ LE DROIT APPLICABLE DANS VOTRE ÉTAT, PAYS OU PROVINCE.

Les produits non aéronautiques sont garantis contre tout défaut de matériel et de fabrication pendant un an à compter de leur date d'achat. Durant cette période, Garmin pourra, à son entière discrétion, réparer ou remplacer tout composant qui s'avérerait défectueux dans le cadre d'un usage normal. Ce type de réparation ou de remplacement ne sera pas facturé au client, qu'il s'agisse des composants ou de la main-d'œuvre, à condition que le client prenne en charge les frais de port. La présente garantie limitée ne couvre pas : (i) les dommages esthétiques, tels que les éraflures, les rayures et les bosses ; (ii) les consommables, comme les piles, à moins que le dommage ne soit dû à un défaut matériel ou de fabrication ; (iii) les dommages provoqués par un accident, une utilisation abusive, une mauvaise utilisation, l'eau, une inondation, un incendie ou toute autre catastrophe naturelle ou cause extérieure ; (iv) les dommages provoqués par des fournisseurs de services non agréés par Garmin ; ou (v) les dommages sur un produit ayant été modifié sans l'autorisation écrite de Garmin ; ou (vi) les dommages sur un produit raccordé à des câbles d'alimentation et/ou des câbles de données non fournis par Garmin ou les dommages sur un produit raccordé à un adaptateur secteur ou des câbles non certifiés par l'UL (Underwriters Laboratories) et non garantis LPS (Limited Power Source). En outre, Garmin se réserve le droit de refuser toute demande de service sous garantie relative à un produit ou service obtenu et/ou utilisé en violation des lois de tout pays. Les produits de navigation Garmin constituent uniquement une aide à la navigation et ne doivent pas être utilisés à des fins exigeant l'évaluation précise de la direction, de la distance, de la position ou de la topographie. Garmin n'offre aucune garantie quant à l'exactitude ou à l'exhaustivité des données cartographiques.

DANS LES LIMITES PRÉVUES PAR LA LOI, LES GARANTIES ET RECOURS CONTENUS DANS LA PRÉSENTE GARANTIE LIMITÉE SONT EXCLUSIFS ET REMPLACENT, ET GARMIN EXCLUT EXPLICITEMENT, TOUTE AUTRE GARANTIE ET RECOURS EXPRES, IMPLICITES, LÉGAUX OU AUTRES, Y COMPRIS, MAIS DE MANIÈRE NON LIMITATIVE, TOUTE GARANTIE IMPLICITE MARCHANDE OU D'ADÉQUATION À UN USAGE PARTICULIER, TOUT RECOURS LÉgal OU AUTRES. LA PRÉSENTE GARANTIE VOUS OCTROIE DES DROITS PARTICULIERS ET VOUS BÉNÉFICIEZ PEUT-ÊTRE D'AUTRES DROITS QUI PEUVENT VARIER D'UN ÉTAT OU PAYS À UN AUTRE. SI LES GARANTIES IMPLICITES NE PEUVENT PAS ÊTRE EXCLUES EN VERTU DU DROIT DE VOTRE ÉTAT OU PAYS, ALORS LESDITES GARANTIES SONT LIMITÉES À LA DURÉE DE LA PRÉSENTE GARANTIE LIMITÉE. CERTAINS ÉTATS, PAYS ET PROVINCES INTERDISANT

LA RESTRICTION DE LA DURÉE D'UNE GARANTIE IMPLICITE, LES RESTRICTIONS SUSMENTIONNÉES PEUVENT NE PAS VOUS CONCERNER.

EN AUCUN CAS, LA SOCIÉTÉ GARMIN NE SAURAIT ÊTRE TENUE POUR RESPONSABLE EN CAS DE RUPTURE DE LA GARANTIE DE TOUT DOMMAGE ACCESSOIRE, SPÉCIAL, INDIRECT OU CONSÉCUTIF RÉSULTANT DE L'UTILISATION, DE LA MAUVAISE UTILISATION OU DE L'IMPOSSIBILITÉ D'UTILISER CE PRODUIT, OU RÉSULTANT DE DÉFAUTS DU PRODUIT. CERTAINS ÉTATS, PAYS ET PROVINCES INTERDISANT L'EXCLUSION OU LA RESTRICTION DES DOMMAGES PARTICULIERS OU ACCESSOIRES, LES RESTRICTIONS SUSMENTIONNÉES PEUVENT NE PAS VOUS CONCERNER.

Si, pendant la durée de la garantie, vous faites une demande de services de garantie conformément à la présente Garantie limitée, Garmin peut, à sa discrétion : (i) réparer l'appareil à l'aide de pièces neuves ou déjà utilisées, si celles-ci remplissent les critères de qualité de Garmin (ii) remplacer l'appareil par un appareil neuf ou par un appareil recertifié Garmin qui remplit les critères de qualité de Garmin ou (iii) rembourser l'appareil au prix où vous l'avez acheté. CE TYPE DE RECOURS SERA VOTRE RECOURS UNIQUE ET EXCLUSIF POUR TOUTE RUPTURE DE GARANTIE. Les appareils réparés ou remplacés bénéficient d'une garantie de 90 jours. Si l'appareil envoyé est toujours couvert par la garantie d'origine, cette nouvelle garantie dure 90 jours ou jusqu'à la fin de la période de garantie d'origine qui est de 1 an ; la période ayant la date de fin la plus éloignée prévaut.

Avant de demander des services de garantie, merci de consulter les ressources d'aide en ligne disponibles sur support.garmin.com. Si votre appareil ne fonctionne toujours pas correctement après avoir appliqué les consignes indiquées en ligne, contactez un centre de service autorisé par Garmin dans le pays où vous avez acheté l'appareil ou suivez les instructions disponibles sur le site support.garmin.com pour obtenir des services de garantie. Si vous vous trouvez aux États-Unis, vous pouvez aussi appeler le 1 800 800 1020.

Si vous demandez des services de garantie en dehors du pays où vous avez acheté l'appareil, Garmin ne peut pas garantir que les pièces et produits nécessaires à la réparation ou au remplacement de votre produit seront disponibles, car les offres, les normes, les lois et les réglementations diffèrent selon les pays. Dans ce cas, Garmin peut, à sa seule discrétion et conformément au droit applicable, réparer votre produit à l'aide de pièces comparables ou remplacer votre produit par un produit Garmin comparable (neuf ou recertifié Garmin), ou vous demander d'envoyer votre produit vers un centre de service autorisé par Garmin dans le pays où vous avez acheté le produit ou vers un centre de service autorisé par Garmin d'un autre pays où votre produit pourra être réparé ou remplacé, et, dans ce cas, vous devrez respecter le droit et les réglementations en matière d'importation et d'exportation et vous acquitter seul des droits de douane, de la TVA, des frais d'expédition ainsi que de tous autres taxes et frais. Dans certains cas, Garmin et ses revendeurs ne peuvent ni réparer votre produit dans un autre pays que celui où vous avez acheté le produit, ni envoyer un produit de remplacement neuf ou réparé dans ce pays, à cause des normes, lois et réglementations du pays en question.

Achats dans le cadre d'enchères en ligne : les produits achetés au cours d'enchères en ligne ne peuvent faire l'objet de rabais ou d'autres offres spéciales proposés par la garantie de Garmin. Les confirmations de vente aux enchères en ligne ne sont pas acceptées dans le cadre d'une vérification sous garantie. Pour bénéficier d'un service sous garantie, l'original ou une copie de la facture dressée par le premier revendeur doit être présenté. Garmin ne procédera à aucun remplacement de composant manquant sur tout produit acheté dans le cadre d'enchères en ligne.

Achats internationaux : selon les pays, une garantie distincte peut être accordée par les distributeurs internationaux pour les appareils achetés hors des États-Unis. Le cas échéant, cette garantie est fournie par le distributeur du pays d'achat et ledit distributeur prend en charge les services locaux nécessaires pour votre appareil. Les garanties distributeur sont valides uniquement dans les zones de distribution visées. En cas de problème, les appareils achetés aux États-Unis ou au Canada doivent être renvoyés aux ateliers de réparations Garmin du Royaume-Uni, des États-Unis, du Canada ou de Taïwan.

Politique de garantie des produits audio : pour certains produits audio de Garmin, la période de garantie est plus longue et des conditions supplémentaires s'appliquent. Rendez-vous sur le site garmin.com/legal/audio-warranty-policy pour plus de détails et pour savoir si votre produit est couvert par la politique de garantie des produits audio de Garmin.

Politiques de garantie des produits Marine : pour certains produits Marine de Garmin de certaines régions du monde, la période de garantie est plus longue et des conditions supplémentaires s'appliquent. Rendez-vous sur le site garmin.com/legal/marine-warranty-policy pour plus de détails et pour savoir si votre produit est couvert par les politiques de garantie des produits Marine de Garmin.

INFORMAZIONI IMPORTANTI SULLA SICUREZZA E SUL PRODOTTO

⚠ AVVERTENZA

Il mancato rispetto delle indicazioni fornite di seguito potrebbe causare incidenti gravi o mortali.



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WARRANTY INFORMATION
CAR AUDIO



SKU#011570
©2021 JL Audio, Inc.

USA Limited Warranty

FOR CAR AUDIO PRODUCTS SOLD AT RETAIL:

JL Audio warrants these products to be free of defects in materials and workmanship from the original date of purchase for these periods:

One (1) year from the original date of purchase: Car Speakers and Subwoofers

Two (2) years from the original date of purchase: Car Amplifiers, Electronics, Enclosed Subwoofers, Stealthbox and Connection Products

Note: The Car Amplifier Warranty Period is extended to three (3) years when accompanied with the purchase of a qualifying JL Audio Amplifier Power Connection System and with installation by an authorized JL Audio dealer.

This warranty is not transferable and applies only to the original retail purchaser from an authorized JL Audio dealer in the USA. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, JL Audio will (at its discretion), repair or replace the defective product with new or remanufactured product at no charge.

Note: Products purchased from unauthorized dealers are not covered under warranty.

Damage caused by the following is not covered under warranty: accident, misuse, physical abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. Loudspeakers with thermal or over-excursion damage are not covered under warranty. This warranty does not cover incidental, accidental or consequential damages and does not cover the cost of removing or reinstalling products. Cosmetic damage due to improper handling, accident or normal wear and tear or exposure to harsh chemicals is not covered under warranty. JL Audio will not be responsible for restoring or maintaining custom finishes or cosmetic treatments applied to products.

This warranty is void if the product's serial number has been removed, altered or defaced.

Any applicable implied warranties are limited in duration to the period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you need service on your JL Audio product:

All USA retail warranty returns should be sent to JL Audio freight prepaid through an authorized JL Audio dealer and must be accompanied by proof of purchase (a copy of the original retail sales receipt.) Direct returns from consumers or non-authorized dealers will be refused unless specifically authorized by JL Audio with a valid return authorization number. Warranty expiration on products returned without proof of purchase will be determined from the manufacturing date code. Coverage may be invalidated as this date is prior to purchase date. Return only defective components. (If one speaker fails in a system, return only that speaker component, not the entire system.) Non-defective items received will be returned freight-collect. Customer is responsible for shipping charges and insurance in sending the product to JL Audio. Freight damage on returns is not covered under warranty.

JL Audio Customer Service:

1-954-443-1100

9:00 AM – 5:00 PM (Eastern Time Zone)

JL Audio Technical Support:www.jlaudio.com/support

Original Equipment Warranty

For JL Audio products installed as original equipment by a boat or vehicle manufacturer, warranty coverage is provided within the boat or vehicle manufacturer's warranty program. Please contact your boat dealer or manufacturer.

International Warranty

JL Audio Car Audio products are warranted against defects in materials and workmanship for a minimum time period as stated in the USA warranty above, beginning on the date of purchase from a Dealer authorized by a JL Audio Distributor. The warranty is only valid within the country of purchase and products are covered by each country's JL Audio Distributor warranty program. To find your country's Distributor please visit this link: www.jlaudio.com/pages/dealer-locator

Consumers in the EEA countries and the Russian Federation are protected by local consumer law and benefit from local statutory warranties.

JL Audio reserves the right to change or modify any of the terms and conditions contained in this Warranty Statement, at any time and in our sole discretion. Any changes or modification will be effective immediately upon posting of the revisions on the JL Audio website at www.jlaudio.com/warranty, and you waive any right you may have to receive specific notice of such changes or modifications.