

GARMIN®

JL AUDIO® AP AMPLIFIERS



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JL AUDIO® AP AMPLIFIERS

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 vessel, or poor product performance.

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

The wiring from the power source to the amplifier must run through an inline fuse or circuit breaker (not included) as close to the power source 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 if there is a short in the cable.

⚠ CAUTION

Install in a dry, well-ventilated location that does not interfere with your factory-installed systems. Mount this product securely to prevent damage or injury in severe conditions. Carefully route all system wiring away from moving parts and sharp edges; secure with cable ties or wire clamps and use grommets and loom where appropriate to protect from sharp edges.

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

NOTICE

Only use this product with 12 volt, negative-ground electrical systems. This product is not certified or approved for use in aircraft.

For ABYC® and NMEA® applications, circuit protection is required within 18 cm (7 in.) of the battery, unless the cable is an enclosure or a conduit.

This product is water-resistant. Do not submerge the device or subject it to high-pressure water spray. Exposure to water pressures beyond the listed water rating can damage the device.

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

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.

After installing an audio system, you should run the connected speakers and subwoofers at low to medium volumes during their first few hours of use. This helps to improve the overall sound by gradually loosening up the moving components in the new speakers and subwoofers, such as the cone, spider, and surround. See the installation instructions provided with your speakers, because there may be more details about the recommended low-to-medium volume usage time for each model.

Tools Needed

- Phillips screwdriver
- Drill
- 3 mm (1/8 in.) drill bit

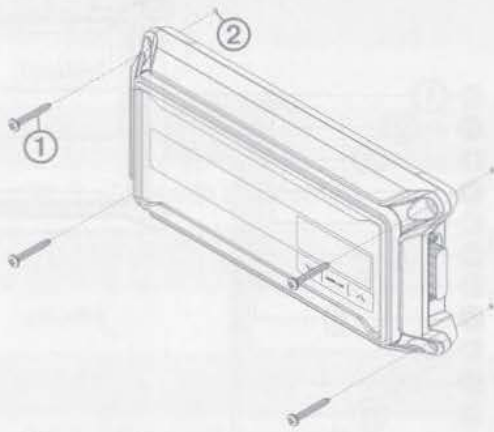
Model Numbers

These instructions cover the installation and operation for three models of JL Audio® AP amplifiers.

JL Audio AP300/1	Monoblock Amplifier
JL Audio AP300/4	4-Channel Amplifier
JL Audio AP600/6	6-Channel Amplifier

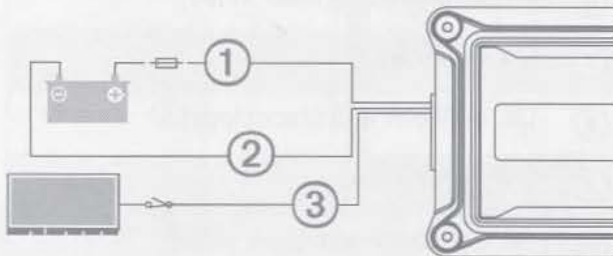
Mounting the Amplifier

- 1 Identify the four M4 x 35 mm screws ① included with the device.



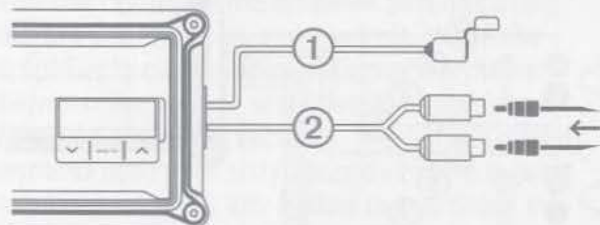
- 2 Place the amplifier onto the mounting location, and mark the locations of the pilot holes.
- 3 Remove the amplifier from the mounting location.
- 4 Using a 1/8 in. (3 mm) drill bit, drill four pilot holes ② into the mounting surface.
- 5 Screw the amplifier into the mounting surface using the four screws.

Power Wiring



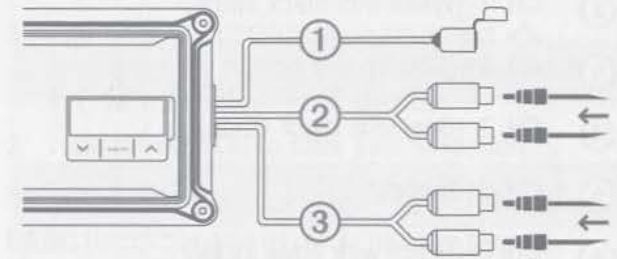
①	+12V DC (Red)+
②	Ground (Black)-
③	Remote in (Blue)+

JL Audio® AP300/1 Signal Inputs: 200mV - 8V RMS



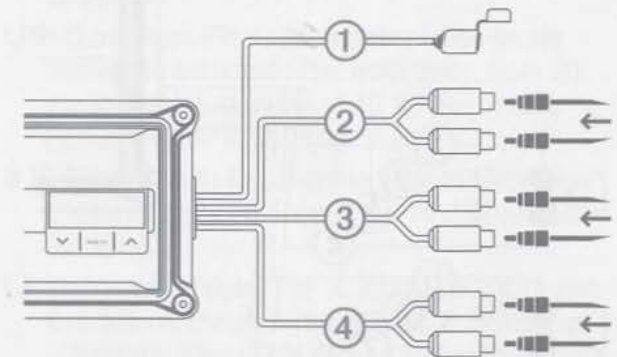
①	Service port
②	Input

JL Audio® AP300/4 Signal Inputs: 200mV - 8V RMS



①	Service port
②	CH. 3/4 input
③	CH. 1/2 input

JL Audio® AP600/6 Signal Inputs: 200mV - 8V RMS



①	Service port
②	CH. 5/6 input
③	CH. 3/4 input
④	CH. 1/2 input

JL Audio® AP300/4 Outputs

You can configure the JL Audio AP300/4 in stereo mode or bridged mode, depending on the needs of your system.

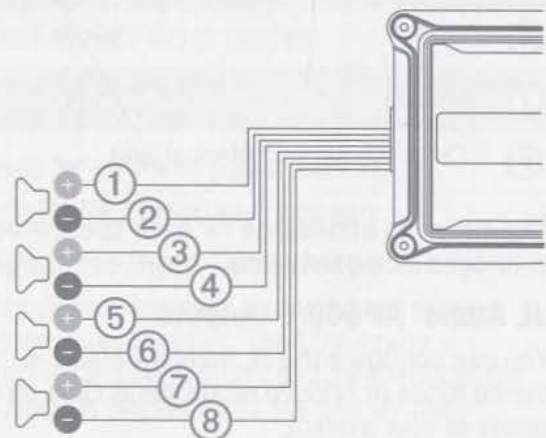


Figure 1: Stereo Mode Outputs

①	CH. 1+ (White)
②	CH. 1- (White with black stripe)
③	CH. 2+ (Gray)
④	CH. 2- (Gray with black stripe)
⑤	CH. 3+ (Green)
⑥	CH. 3- (Green with black stripe)
⑦	CH. 4+ (Violet)
⑧	CH. 4- (Violet with black stripe)

The minimum impedance for each speaker output in stereo mode is 2 ohms.

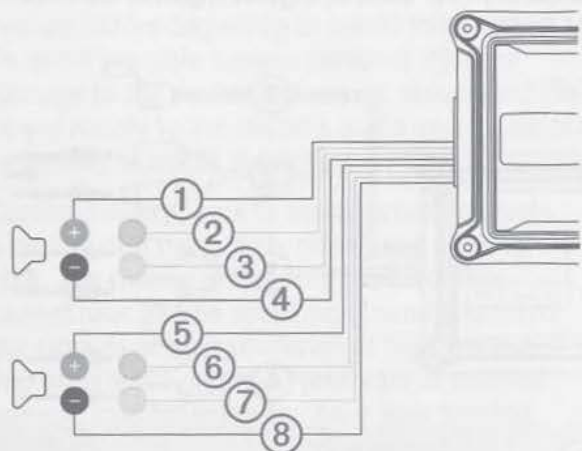


Figure 2: Bridged Mode Outputs

①	CH. 1+ (White)
②	unused
③	unused
④	CH. 2- (Gray with black stripe)
⑤	CH. 3+ (Green)
⑥	unused
⑦	unused
⑧	CH. 4- (Violet with black stripe)

The minimum impedance for each speaker output in bridged mode is 4 ohms.

JL Audio® AP600/6 Outputs

You can configure the JL Audio AP600/6 in stereo mode or bridged mode, depending on the needs of your system.

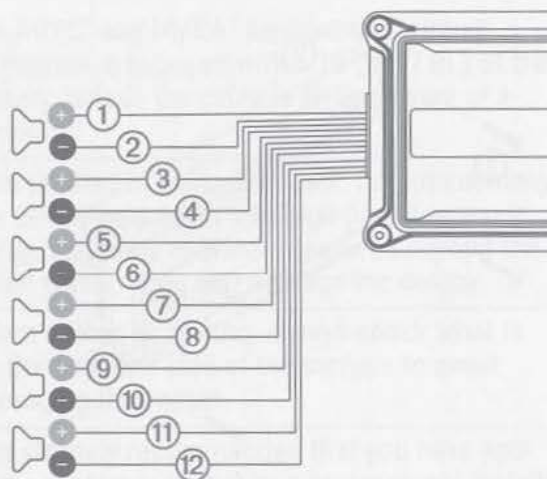


Figure 3: Stereo Mode Outputs

①	CH. 1+ (White)
②	CH. 1- (White with black stripe)
③	CH. 2+ (Gray)
④	CH. 2- (Gray with black stripe)
⑤	CH. 3+ (Green)
⑥	CH. 3- (Green with black stripe)
⑦	CH. 4+ (Violet)
⑧	CH. 4- (Violet with black stripe)
⑨	CH. 5+ (Orange)
⑩	CH. 5- (Orange with black stripe)
⑪	CH. 6+ (Brown)
⑫	CH. 6- (Brown with black stripe)

The minimum impedance for each speaker output in stereo mode is 2 ohms.

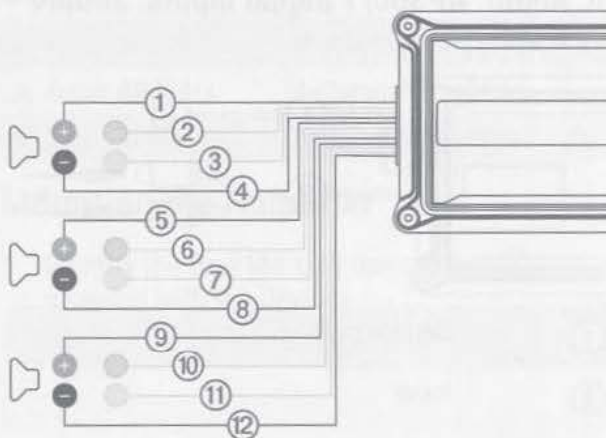
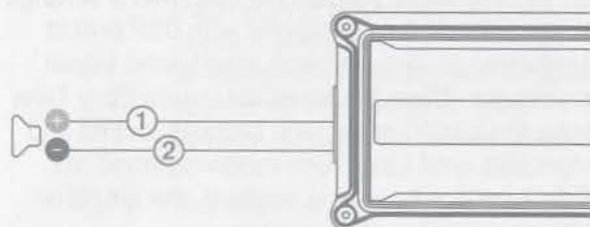


Figure 4: Bridged Mode Outputs

①	CH. 1+ (White)
②	unused
③	unused
④	CH. 2- (Gray with black stripe)
⑤	CH. 3+ (Green)
⑥	unused
⑦	unused
⑧	CH. 4- (Violet with black stripe)
⑨	CH. 5+ (Orange)
⑩	unused
⑪	unused
⑫	CH. 6- (Brown with black stripe)

The minimum impedance for each speaker output in bridged mode is 4 ohms.

JL Audio® AP300/1 Outputs



①	SPK+ (Brown)
②	SPK- (Brown with black stripe)

The minimum impedance for the output is 2 ohms.

Display and Controls

Default Display

You can configure the amplifier settings using the top-panel display and controls. When the amplifier is on, the default display alternates between the voltage and internal temperature readings every five seconds. The default display remains active for sixty seconds before turning off. You can press any button to reactivate the default display.

Control	Description
▼ / ▲	Press to move through the menus
MODE / CH	<ul style="list-style-type: none"> Press to enter a selection Hold to exit or save and return to the default display

Setup

Changing the Temperature Scale

- 1 While the default display is on, press ▲ to change the temperature reading between Fahrenheit (default) and Celsius.
- 2 Hold **MODE / CH** to save your selection.

Settings

GAIN: (Input Sensitivity) Matches the source unit's output voltage with the inputs of each amplifier or amplifier pairs from 1 to 11 (default value is 5).

HPF: (High-Pass Filter) For the JL Audio® AP300/4 and JL Audio AP600/6, this attenuates frequencies below the selected filter frequency, from 20 Hz to 500 Hz at a rate of 12 dB per octave (default value is OFF).

LPF: (Low-Pass Filter) Attenuates frequencies above the selected filter frequency, from 20 Hz to 500 Hz at a rate of 12 dB per octave (default value is 500 Hz).

B.B.: (Bass Boost) Equalizer increases the range centered at 37 Hz from 0 to +18 dB (default value is 0).

I.F.: (Infrasonic Filter) The JL Audio AP300/1 and CH. 5/6 on the JL Audio AP600/6 include an infrasonic filter. This setting adjusts the high-pass filter cutoff frequency, from 20 Hz to 50 Hz at a rate of 12 dB per octave (default value is OFF).

PHASE: (Phase Shift) For the JL Audio AP300/1, this setting inverts the output polarity from 0 (normal) to 180 (inverted) degrees for the best overall bass performance (default value is 0 degrees).

Changing Settings

- 1 Press **MODE / CH** to enter Channel Selection mode.
- 2 Press ▼ or ▲ to select a channel pair, and press **MODE / CH** to confirm.
- 3 Press ▼ or ▲ to select a setting, and press **MODE / CH** to confirm.
- 4 Press ▼ or ▲ to adjust a setting.
- 5 Hold **MODE / CH** to save and exit.

Changing the Input Sensitivity

You can choose between two input sensitivity ranges on your amplifier. The LOW range (default) is between 200mV and 2V RMS and the HIGH range is between 800 mV and 8V RMS.

- 1 Press ▼ while the default display is on to select an input sensitivity range.
- 2 Hold **MODE / CH** to save your selection.

Manually Setting the Input Sensitivity Level

NOTICE

Follow this process only if you are not using the Easy Tune Mode of the amplifier.

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

You must readjust the GAIN settings if any equalizer boost is activated after setting the GAIN with this procedure. This applies to any EQ boost circuit, including source unit tone controls or EQ circuits. EQ cuts do not require readjustment.

Required Equipment

- Digital AC voltmeter
- 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/amplifier applications (JL Audio® AP300/4 and JL Audio AP600/6): 1 kHz

Subwoofer channel/amplifier applications: 50 Hz

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

Follow these steps to adjust the input sensitivity of each amplifier channel or channel pair to achieve overall system balance.

- 1 Disconnect the speakers from the amplifier's speaker output connectors.
- 2 Turn off all processing (bass/treble, loudness, EQ, etc.) on the source unit, processors (if used) and amplifier.
- 3 Set all of the fader control to the center position, and set the subwoofer level control to $\frac{3}{4}$ of maximum, if used.
- 4 Set all of the **GAIN** controls to "1".
- 5 Set the source unit volume to $\frac{3}{4}$ of full volume to allow for reasonable gain overlap with moderate clipping at full volume.
- 6 Determine the target AC voltage for input sensitivity adjustment according to the nominal impedance of the speaker system connected to the amplifier outputs (page 7).
- 7 Verify that you have disconnected the speakers before proceeding.

- 8 Play a track with an appropriate sine wave (within the frequency range to be amplified) at $\frac{3}{4}$ source unit volume.
- 9 Connect the AC voltmeter to the speaker output terminals of the amplifier.
For the JL Audio AP300/4 or JL Audio AP600/6, if the channel pair is operating in stereo, it is only necessary to measure one channel. If bridged, you must test the voltage at the correct terminals (L+ and R-).
- 10 While observing the voltmeter, adjust the **GAIN** control to a setting closest to the target AC voltage.
- 11 After you have adjusted each source/channel section to its maximum low-distortion output level, reconnect the speakers.

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

Easy Tune Mode

The JL Audio® AP300/1, JL Audio AP300/4, and JL Audio AP600/6 include an Easy Tune mode that automatically adjusts the amplifier's settings for use with stereos equipped with DSP profile capabilities or systems with standalone signal processors. When the amplifier enters Easy Tune mode, the amplifier buttons become locked and inoperable until Easy Tune mode is turned off. While Easy Tune mode is enabled, the amplifier settings are set to these values.

Setting	Value
INPUT	HIGH
GAIN	JL Audio AP300/1: 7; JL Audio AP300/4: 9; JL Audio AP600/6: 8
HPF	OFF
LPF	OFF
B.B	0
I.F	OFF

Using Easy Tune Mode

- To activate Easy Tune mode, hold **MODE / CH** for 15 seconds.
When Easy Tune mode is activated, the screen displays "Easy Tune" for 60 seconds.
- To turn off Easy Tune mode, hold **MODE / CH** for 15 seconds.

Checking the Firmware Version

Hold **MODE / CH** and **▲** simultaneously for three seconds.

The amplifier displays the current firmware version.

Restoring All Default Settings

Hold **▼** and **▲** simultaneously for seven seconds.

After seven seconds, all settings are returned to their original factory default values and FACT appears on the screen.

Protection Mode

The amplifier includes built-in features to monitor for thermal and short circuit fault conditions.

Display	Function
TEMP	<p>Indicates thermal fault (over-temperature condition).</p> <ul style="list-style-type: none"> The audio output is muted. The amplifier returns to normal operation when the temperature returns to a safe level.
PROT	<p>Indicates an over-current condition.</p> <ul style="list-style-type: none"> The audio output is muted and the audio may exhibit a repetitive, audible ticking or thumping noise in the output. Possible causes include a speaker impedance lower than the optimum load range or a short-circuit in the speaker wiring. A short circuit can be between the positive and negative speaker wires or between either speaker wire and the vehicle chassis or +12V. The amplifier returns to normal operation when impedance returns to safe level. Some incidents may require you to restart the amplifier.

Appendix

Target AC Voltage

JL Audio® AP300/1 Target AC Voltage

Nominal Impedance	
4 ohms	28.3 V
2 ohms	24.5 V

JL Audio AP300/4 Target AC Voltage

Nominal Impedance	Stereo (CH. 1/2/3/4)	Bridged (CH. 1/2/3/4)
4 ohms	14.1 V	24.5 V
2 ohms	12.2 V	not recommended

JL Audio AP600/6 Target AC Voltage

Nominal Impedance	Stereo (CH. 1/2/3/4)	Stereo (CH. 5/6)	Bridged (CH. 1/2/3/4)	Bridged (CH. 5/6)
4 ohms	14.1 V	20.0 V	24.5 V	34.6 V
2 ohms	12.2 V	17.3 V	not recommended	not recommended

Specifications

All Models

Amplifier Topology	Class D
Power Supply Type	Regulated MOSFET switching
Operating Voltage	14.4V DC (9V to 16V)
Operating Temperature	From -20 to 65°C (from -4 to 149°F)
Storage Temperature	From -40 to 85°C (from -40 to 185°F)
Minimum Copper Power/GND Wire	4 AWG NOTE: Copper clad aluminum (CCA) wire is not recommended.
S/N Ratio (A-weighted, 20 Hz to 20 kHz noise bandwidth)	>70 dB (Referred to 1W)
Water Rating	IEC 60529 IP67 ¹
Type	Preamp RCA jacks
Input Voltage Range	200mV to 2V RMS (low) or 800mV to 8V RMS (high)
Bass Boost EQ	0 to +18 dB, centered at 37 Hz, always active

JL Audio® AP300/1 Specifications

Recommended Fuse	35 A
Rated RMS Power @ 14.4V, <1% THD+N	200W x 1 @ 4 ohms 300W x 1 @ 2 ohms
Frequency Response	10 Hz to 500 Hz (+0, -3 dB)
Speaker Quantity	One stereo pair
Filter Type	Active, 12 dB/octave, low-pass (20 Hz to 500 Hz)
Infrasonic Filter	20 Hz to 50 Hz, 12 dB/octave

¹ The device is protected against the ingress of dust and withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to .

Phase Shift	0 to 180 degrees
Amplifier Dimensions (L x W x H)	265 x 125 x 47 mm (10.43 x 4.90 x 1.85 in.)

JL Audio AP300/4 Specifications

Recommended Fuse	35 A
Rated RMS Power @ 14.4V, <1% THD+N	50W x 4 @ 4 ohms 75W x 4 @ 2 ohms 150W x 2 @ 4 ohms bridged
Frequency Response	20 Hz to 20 kHz (+0, -3 dB)
Speaker Quantity	Two stereo pairs
Filter Type	Active, 12 dB/octave, high-pass or low-pass (20 Hz to 500 Hz), defeatable
Infrasonic Filter	N/A
Phase Shift	N/A
Amplifier Dimensions (L x W x H)	265 x 125 x 47 mm (10.43 x 4.90 x 1.85 in.)

JL Audio AP600/6 Specifications

Recommended Fuse	70 A
Rated RMS Power @ 14.4V, <1% THD+N	CH. 1/2/3/4: 50W x 4 @ 4 ohms 75W x 4 @ 2 ohms 150W x 2 @ 4 ohms bridged CH. 5/6: 100W x 2 @ 4 ohms 150W x 2 @ 2 ohms 300W x 1 @ 4 ohms bridged
Frequency Response	20 Hz to 20 kHz (+0, -3 dB)
Speaker Quantity	Three stereo pairs
Filter Type	Active, 12 dB/octave, high-pass or low-pass (20 Hz to 500 Hz), defeatable
Infrasonic Filter	20 Hz to 50 Hz, 12 dB/octave (CH. 5/6 only)
Phase Shift	N/A
Amplifier Dimensions (L x W x H)	300 x 150 x 47 mm (11.81 x 5.90 x 1.85 in.)

物質宣言

部件名称	有毒有害物质或元素									
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚	邻苯二甲酸二(2-乙基己)酯	邻苯二甲酸丁酯	邻苯二甲酸二丁酯	邻苯二甲酸二异丁酯
印刷电路板组件	×	○	○	○	○	○	○	○	○	○
金属零件	×	○	○	○	○	○	○	○	○	○
电缆、电缆组件、连接器	×	○	○	○	○	○	○	○	○	○
塑料和橡胶零件	○	○	○	○	○	○	○	○	○	○

本表格依据 SJ/T11364 的规定编制。

○: 代表此种部件的所有均质材料中所含的该种有害物质均低于 (GB/T26572) 规定的限量

×: 代表此种部件所用的均质材料中, 至少有一类材料其所含的有害物质高于 (GB/T26572) 规定的限量

* 该产品说明书应提供在环保使用期限和特殊标记的部分详细讲解产品的担保使用条件。

10
产品

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.

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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



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