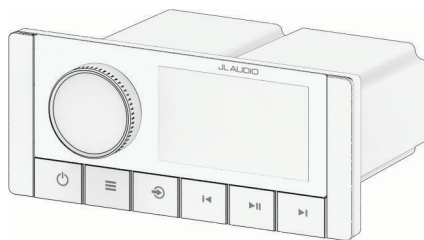


GARMIN®

JL AUDIO® A60 MARINE STEREO



Installation Instructions

Important Safety Information

⚠ WARNING

Failure to follow these warnings, cautions, and notices could result in personal injury, damage to the vessel or device, or poor product performance.

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.

Disconnect the vessel's power supply before beginning to install this product.

Before applying power to this product, make sure it has been correctly grounded according to these instructions.

⚠ CAUTION

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

NOTICE

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

Do not use the stereo as a template when drilling the mounting holes because this may damage the glass display and void the warranty. You must only use the included template to correctly drill the mounting holes.

You must read all installation instructions before beginning the installation. If you experience difficulty during the installation, contact Garmin® Product Support.

Tools Needed

- Phillips screwdriver
- Electric drill
- Drill bit (size varies based on surface material and screws used)
- Rotary cutting tool or jigsaw
- 15 A inline fuse for the power cable
- Silicone-based marine sealant (optional)

Mounting Considerations

- You must mount the stereo on a flat surface that provides open airflow around the rear of the stereo for heat ventilation.
- If you are installing the stereo in a location that may be exposed to water, you must mount it within 45 degrees of the horizontal plane.

- If you are installing the stereo in a location that may be exposed to water, add a drip loop to the cable to allow water to drip off of the cable and avoid damage to the stereo.
- If you need to mount the stereo outside a boat, you must mount it in a location far above the waterline, where it is not submerged, and where it cannot be damaged by docks, pilings, or other pieces of equipment.
- To avoid interference with a magnetic compass, you must install the stereo at least 45 cm (17.7 in.) away from a compass.

Mounting the Stereo

NOTICE

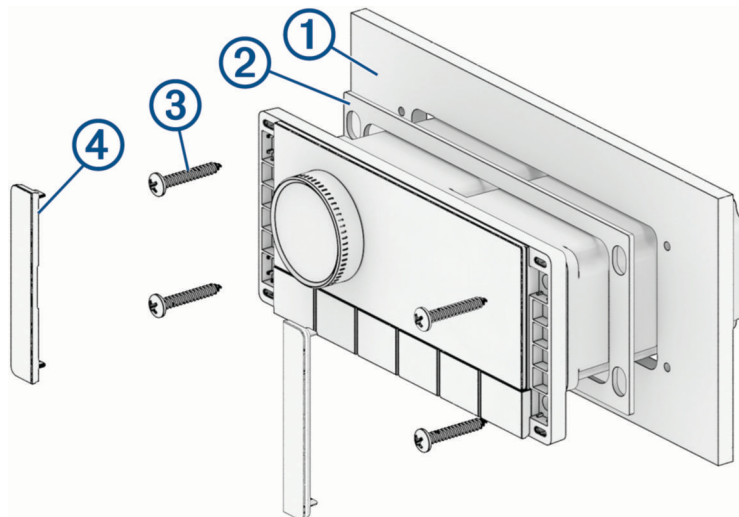
Do not use the stereo as a template when drilling the mounting holes because this may damage the display and void the warranty. You must only use the included template to correctly drill the mounting holes.

Be careful when cutting the hole to mount the stereo. There is only a small amount of clearance between the case and the mounting holes, and cutting the hole too large could compromise the stability of the stereo after it is mounted.

Do not apply grease or lubricant to the screws when fastening the stereo to the mounting surface. Grease or other lubricants can cause damage to the stereo housing.

Before you can mount the stereo in a new location on the mounting surface, you must select a location in accordance with the mounting considerations.

- 1 Adhere the template to the mounting surface.
- 2 Drill a hole inside the corner of the dashed line on the template.
- 3 Cut the mounting surface ① along the inside of the dashed line on the template.



- 4 Ensure the mounting holes on the stereo line up with the pilot holes on the template.
- 5 Using an appropriately sized drill bit for the mounting surface and screw type, drill the pilot holes.
- 6 Remove the template from the mounting surface.
- 7 Complete an action:
 - If you are installing the stereo in a dry location, place the included mounting gasket ② on the back of the stereo.
 - If you are installing the stereo in a location that is exposed to water, apply silicone-based marine sealant on the mounting surface around the cutout.

NOTICE

Do not install the included mounting gasket if you applied sealant to the mounting surface. Using sealant and the mounting gasket may reduce water resistance.

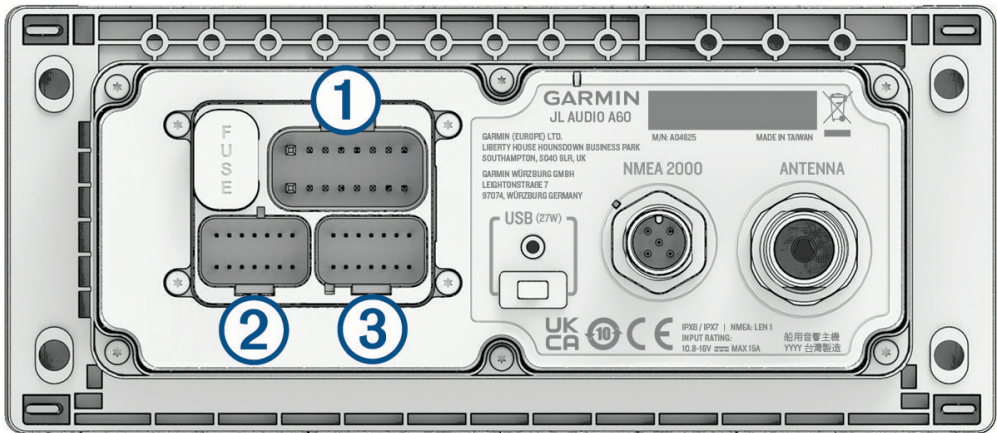
- 8 If you will not have access to the back of the stereo after installation, make the necessary wiring connections.
- 9 Secure the stereo to the mounting surface using the included screws ③. You should hand-tighten the screws when securing the stereo to the mounting surface to avoid over tightening them.

10 Snap the screw covers in place ④.

Connection Considerations

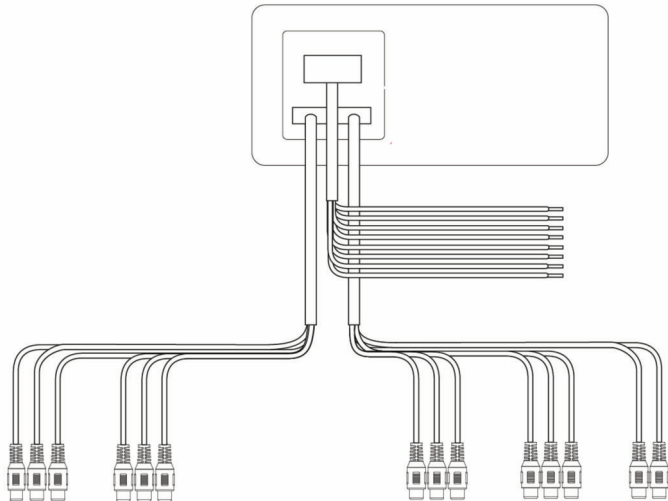
The stereo must be connected to power, to speakers, and to media input sources to function correctly. You should carefully plan the layout of the stereo, wired remote, speakers, optional NMEA 2000® network, and your input sources before making any connections.

Port Identification



Item	Description
ANTENNA	Connects the stereo to a typical AM/FM antenna with a Motorola RF connector. If you are installing the stereo on a boat with a metal hull, you must use a ground-dependent antenna. If you are installing the stereo on a boat with a non-metal hull, you must use a ground-independent antenna. See the installation instructions provided with your antenna for more information.
NMEA 2000®	Connects the stereo to a NMEA 2000 network (NMEA 2000® System Wiring Diagram, page 7).
USB	Connects the stereo to a USB-C® device or USB-C extension cable (not included).
FUSE	Contains the fuse for the device. See the device specifications for replacement fuse information (Specifications, page 7).
①	Connects the stereo to the power and speaker wiring harness.
②	Connects the stereo to the wiring harness for auxiliary input 1, and for the line and subwoofer outputs for zones 1 and 2.
③	Connects the stereo to the wiring harness for the line and subwoofer outputs for zones 3 and 4.

Wiring Harness Wire and Connector Identification



Wire or RCA Connector Function	Bare Wire Color or RCA Label Name	Notes
Ground (-)	Black	Connects to the power source (Connecting to Power, page 5).
Power (+)	Red	Connects to the power source (Connecting to Power, page 5).
Amplifier on	Blue	Connects to optional external amplifiers, enabling them to turn on when the stereo turns on. NOTICE A connected amplifier must use the same ground (-) as the stereo for this signal wire to function correctly.
Telemute	Brown	Activates when connected to the same ground (-) as the stereo. For example, when you connect this wire to a compatible, hands-free mobile kit, the audio mutes or the input switches to Aux1 when a call is received and the kit connects this wire to the same ground (-) as the stereo. You can enable this functionality from the settings menu.
Dim	Orange	Connects to the boat's illumination wire to dim the stereo screen when the lights are on. The gauge of the illumination wire must be suitable for the fuse supplying the circuit it is connected to. NOTICE The stereo and the vessel must use the same ground (-) connection for the Dim wire to function correctly.
Speaker zone 1 left (+)	White	
Speaker zone 1 left (-)	White/black	
Speaker zone 1 right (+)	Gray	
Speaker zone 1 right (-)	Gray/black	
Speaker zone 2 left (+)	Green	
Speaker zone 2 left (-)	Green/black	
Speaker zone 2 right (+)	Purple	
Speaker zone 2 right (-)	Purple/black	
Zone 1 line out (left) Zone 1 line out (right) Zone 1 subwoofer out	ZONE 1 ZONE 1 SUB OUT	Provides output to an external amplifier, and is associated with the volume control for zone 1. Each subwoofer cable provides a single mono output to a powered subwoofer or subwoofer amplifier.
Zone 2 line out (left) Zone 2 line out (right) Zone 2 subwoofer out	ZONE 2 ZONE 2 SUB OUT	Provides output to an external amplifier, and is associated with the volume control for zone 2. Each subwoofer cable provides a single mono output to a powered subwoofer or subwoofer amplifier.
Auxiliary in 1 left Auxiliary in 1 right	AUX IN 1	Provides an RCA stereo line input for audio sources, such as a CD or MP3 player.
Zone 3 line out (left) Zone 3 line out (right) Zone 3 subwoofer out	ZONE 3 ZONE 3 SUB OUT	Provides output to an external amplifier, and is associated with the volume control for zone 3. Each subwoofer cable provides a single mono output to a powered subwoofer or subwoofer amplifier.
Zone 4 line out (left) Zone 4 line out (right) Zone 4 subwoofer out	ZONE 4 ZONE 4 SUB OUT	Provides output to an external amplifier, and is associated with the volume control for zone 4. Each subwoofer cable provides a single mono output to a powered subwoofer or subwoofer amplifier.

Connecting to Power

WARNING

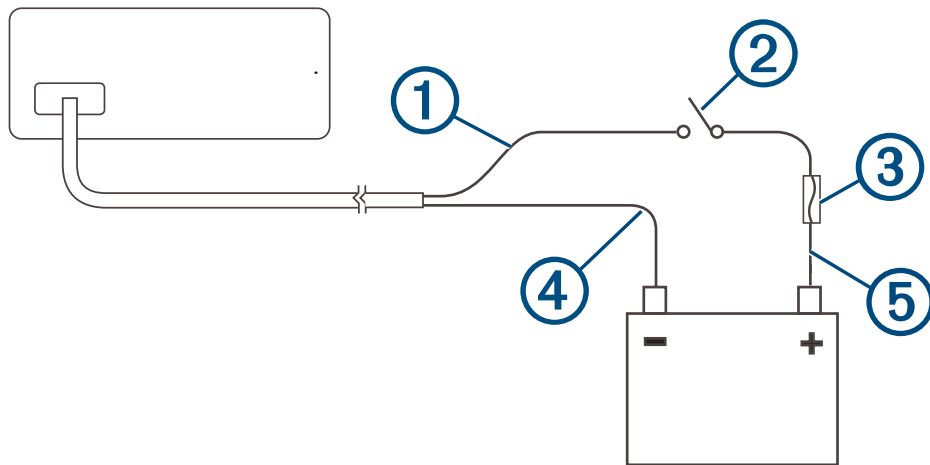
You must install a 15 A fuse (not included) on the red wire before connecting to power. Connecting this wire to power without a fuse could result in a short circuit on the wire, which may lead to fire and result in personal injury and damage to the vessel or device.

NOTICE

You must connect the red wire to power through the ignition or another manual switch to prevent draining the battery when the stereo is not in use.

If it is necessary to extend the power and ground wires, use 14 AWG (2.08 mm²) wire. For extensions longer than 1 m (3 ft.), use 12 AWG (3.31 mm²) wire.

- 1 Route the red power wire ① to the ignition or another manual switch ② through a 15 A fuse ③.



- 2 Route the black ground wire ④ to the battery.
- 3 If necessary, route a wire ⑤ between the fuse and the battery.
- 4 Route the wiring-harness plug to the stereo.
Do not connect the wiring harness to the stereo until after all of the bare wire connections have been made.
- 5 Connect the black wire to the negative (-) battery terminal.
- 6 Connect the red power wire to the ignition or another manual switch, and connect the switch to the positive (+) battery terminal if necessary.
- 7 Connect the wiring harness plug to the stereo.

Speaker Zones

You can group speakers in one area into a speaker zone. This enables you to control the audio level of the zones individually. For example, you could make the audio quieter in the cabin and louder on deck.

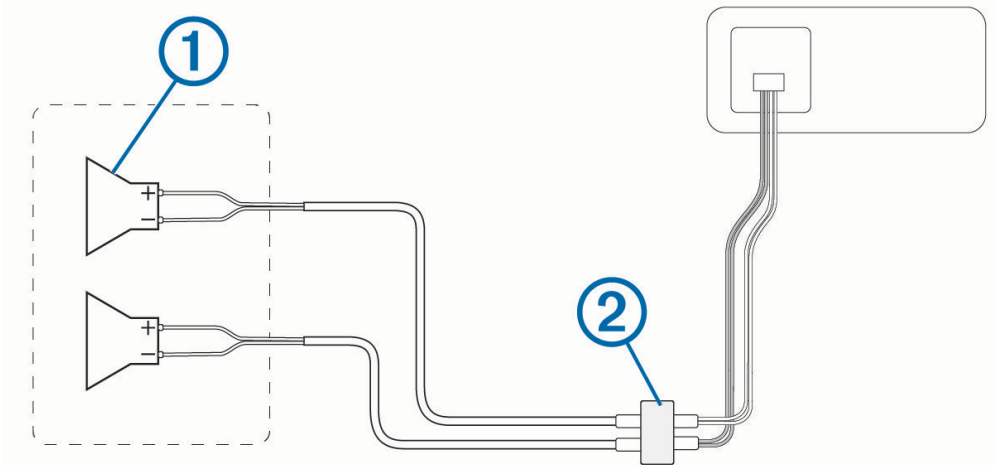
The speaker wires on the wiring harness for zones 1 and 2 are powered by the on-board amplifier. To use the RCA line outputs and the RCA subwoofer outputs for zones 1 and 2, you must connect external amplifiers.

Zones 3 and 4 are available as line-level outputs only. To use the RCA line outputs and the RCA subwoofer outputs for zones 3 and 4, you must connect external amplifiers.

You can set the balance, volume limit, tone, subwoofer frequency, and name for each zone, and configure other zone-specific settings.

NOTE: Subwoofer frequency is not adjustable when managed by DSP.

Single-Zone System Wiring Example

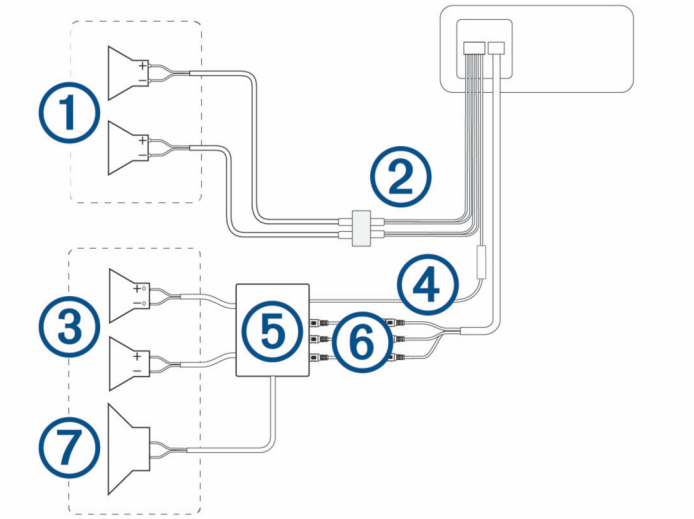


①	Speakers
②	Water-tight connection

Speaker System Wiring Using a Line Out

This diagram illustrates a system installation with an external amplifier and subwoofer connected to zone 2 on the stereo using a line out. You can connect an amplifier and subwoofer to any or all of the available zones on the stereo.

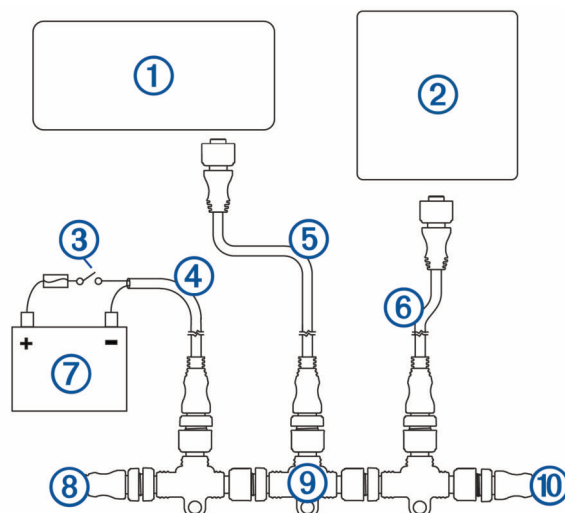
NOTE: You can connect speakers to the speaker wires for the internal stereo amplifier while using the line out on zones 1 and 2, although adjusting the volume affects both the speakers connected to the internal amplifier and the line out. This may result in uneven volume levels.



①	Zone 1 speakers
②	Water-tight connection
③	Zone 2 speakers
④	Amplifier-on signal wire You must connect this wire to each amplifier connected to a zone line out. A connected amplifier must use the same ground (-) as the stereo for this signal wire to function correctly.
⑤	Powered amplifier connected to the zone 2 line out

⑥	Zone 2 line out and subwoofer out Each subwoofer cable provides a single mono output to a powered subwoofer or subwoofer amplifier. You may need to use an RCA splitter to connect this to an amplifier.
⑦	Subwoofer

NMEA 2000® System Wiring Diagram



①	Stereo
②	Supported chartplotter, MFD, or compatible JL Audio® NMEA 2000 remote control
③	In-line switch
④	NMEA 2000 power cable
⑤	NMEA 2000 drop cable from the stereo, up to 6 m (20 ft.)
⑥	NMEA 2000 drop cable from the chartplotter MFD or compatible JL Audio NMEA 2000 remote control
⑦	9 to 16 Vdc power supply
⑧	NMEA 2000 terminator or backbone cable
⑨	NMEA 2000 T-connector
⑩	NMEA 2000 terminator or backbone cable

Stereo Information

Specifications

General

Weight	470 g (1.04 lb)
Water resistance	IEC 60529 IPX6 (when properly installed) IEC 60529 IPX7 (when properly installed) ¹
Operating temperature range	From 0 to 50°C (from 32 to 122°F)
Storage temperature range	From -20 to 70°C (from -4 to 158°F)
Input voltage	From 10.8 to 16 Vdc
Current (max.)	15 A

¹ The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to www.garmin.com/waterrating.

Current (muted)	310 mA
Current (off)	Less than 15 mA with NMEA 2000® active
Fuse	15 A mini blade type
NMEA 2000 LEN @ 9 Vdc	1 (50 mA)
Bluetooth® wireless range	Up to 10 m (30 ft.)
Wireless frequencies and transmit power	Bluetooth 6.1 2400 - 2483,5 MHz: < 20dBm
Compass-safe distance	45 cm (17.7 in.)
Line output level (max.)	5.7 V (peak to peak)
Aux input level	1 V RMS typical, 2 V RMS max.

Onboard, Class D Amplifier

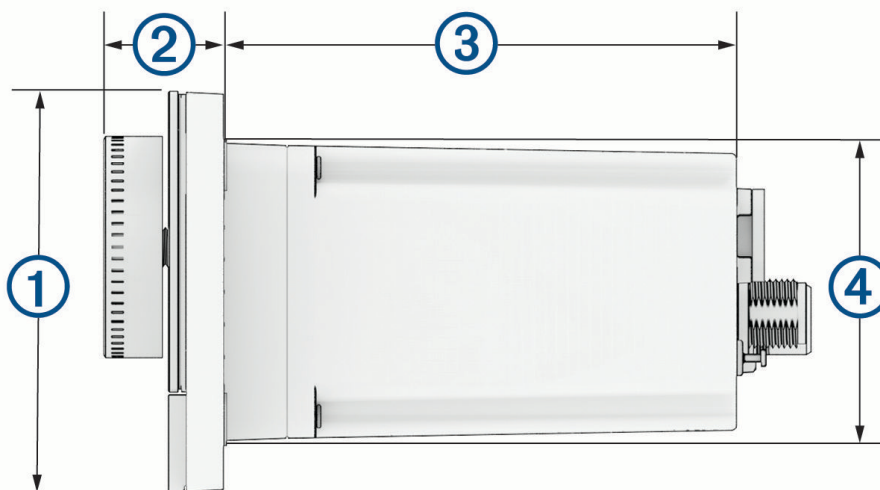
Continuous power output	17 W RMS x 4 at 1 kHz and 1% THD+N, at 4 ohms (CTA-2006)
Maximum dynamic power	22 W x 4 at 1 kHz and 10% THD+N, at 4 ohms (CTA-2006)
Total maximum dynamic power	89 W (CTA-2006)

Tuner Frequencies

Tuner	Europe and Australasia	USA	Japan
FM radio frequency range	87.5 to 108 MHz	87.5 to 107.9 MHz	76 to 95 MHz
FM frequency step	50 kHz	200 kHz	50 kHz
AM radio frequency range	522 to 1620 kHz	530 to 1710 kHz	522 to 1620 kHz
AM frequency step	9 kHz	10 kHz	9 kHz

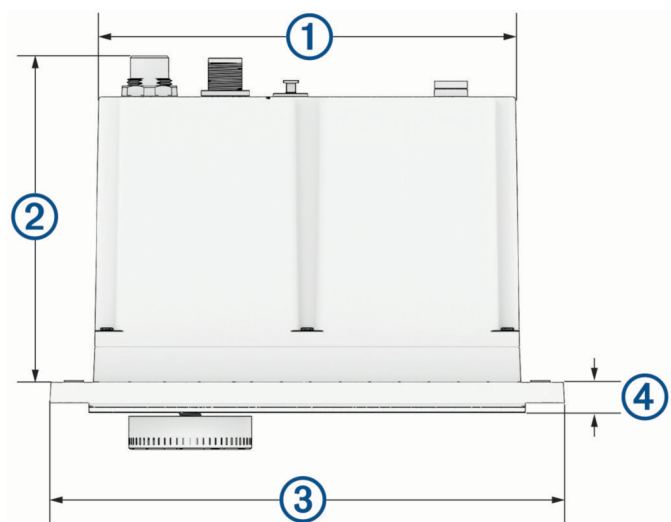
Stereo Dimension Drawings

Side Dimensions



①	68 mm (2.68 in.)
②	20 mm (0.79 in.)
③	87 mm (3.43 in.)
④	50 mm (1.97 in.)

Top Dimensions



①	130 mm (5.12 in.)
②	102 mm (4.02 in.)
③	157 mm (6.18 in.)
④	10 mm (0.39 in.)

Software Updates

Go to support.garmin.com to find software updates and information for your device.

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M/N: A04825

船用音响主机

船用音響主機