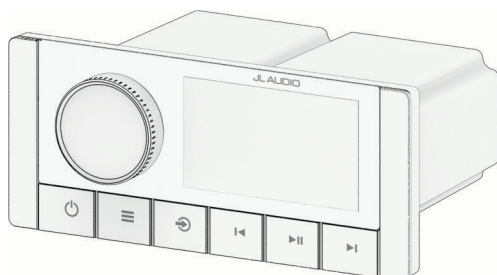


GARMIN®

JL AUDIO® A60 MARINE STEREO



**Owner's
Manual**

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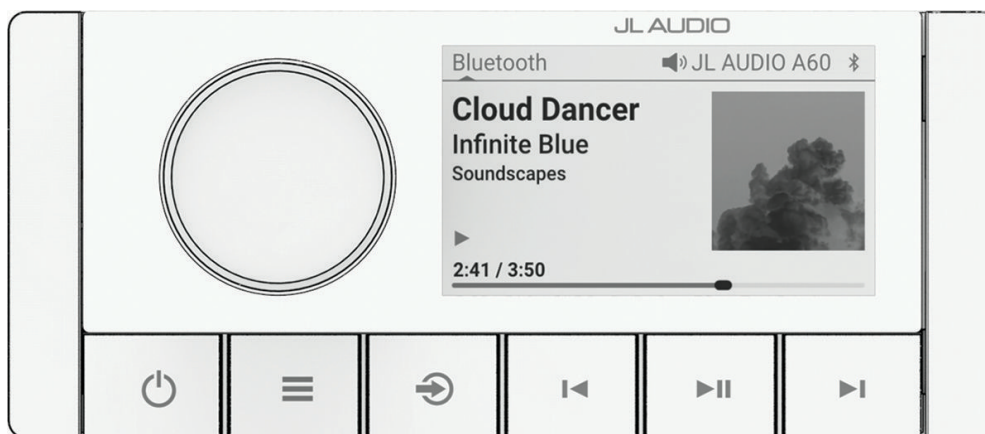
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Getting Started

⚠ WARNING

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

Stereo Controls



Dial	• Turn to adjust the volume. • When adjusting the volume, press to switch between zones. • Turn to move through the menus or adjust a setting. • When in a menu, press to select the highlighted option. • Press and hold to activate certain functions such as opening the radio presets.
⏻	• Press to turn on the stereo. • Press to mute the audio. • Press and hold to turn off the stereo. • Press and hold for longer than 10 seconds to reset the stereo.
≡	• Press to open the menu. • Press to return to the previous screen from the menu. • Press and hold to exit the menu.
↺	Press to change the source. TIP: You can turn the dial to browse, and press the dial to select the source.
⏮	• Press to skip to the beginning of the track or to the previous track, when using an applicable source. • Press and hold to rewind the track, when using an applicable source. • AM/FM source: • Press to tune to the previous station or preset. • Press and hold for faster tuning (manual mode only). • AUX: Press to decrease the gain. • DAB source: • Press to return to the previous DAB station in the ensemble. When you reach the beginning of the current ensemble, the stereo automatically changes to the last available station in the previous ensemble. • Press and hold to return to the previous DAB ensemble.

▶	- Press to pause or resume media playback. - AM/FM source: - Press to cycle through the tuning modes (Auto, Manual, and Preset). - Press and hold to save the selected station as a preset. - DAB source: - Press and hold to scan for DAB stations. - Press to switch between manual tuning mode and presets.
▶	- Press to skip to the next track or station, when using an applicable source. - Press and hold to fast-forward, when using an applicable source. - AM/FM: - Press to tune to the next station or preset. - Press and hold for faster tuning (manual mode only). - AUX: Press to increase the gain. - DAB source: - Press to advance to the next DAB station in the ensemble. When you reach the end of the current ensemble, the stereo automatically changes to the first available station in the next ensemble. - Press and hold to advance to the next DAB ensemble.

Entering Text

- 1 In a field that allows you to enter text, select **✕** to erase the existing characters.
- 2 If necessary, select **123** or **@?#** to use numerals, symbols, or lower-case letters when available.
- 3 Turn the dial to choose a character, and press the dial to select it.
- 4 Select **Done** to save the new text.

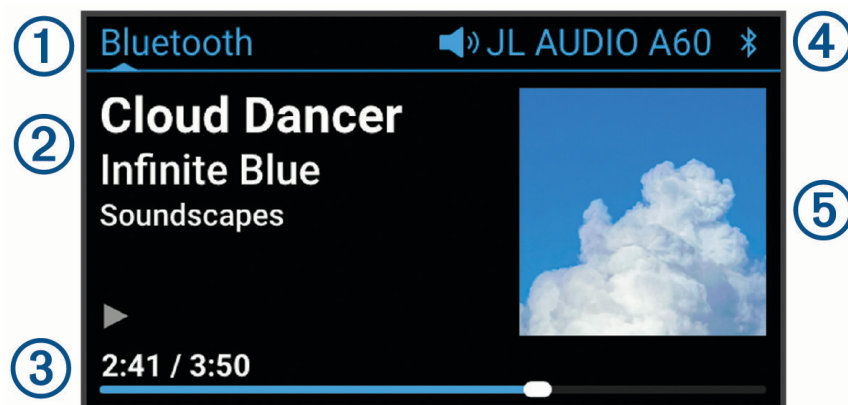
Using the Dial to Select Items

You can use the dial to highlight and select items on the screen.

- Turn the dial to highlight an item on the screen.
- Press the dial to select the highlighted option.

Stereo Screen

The information displayed on the screen varies depending on the source selected. This example shows the stereo playing a track from a device connected using Bluetooth® wireless technology.



①	Source name
②	Track details (if available)
③	Elapsed time, track duration, and the current track number out of the total number of tracks in the playlist (if available)
④	Device name
⑤	Album art (if available from a compatible source)

Naming the Device

You should enter a unique name for this device so you can easily identify it.

NOTE: You should provide unique names for the zones and sources on this stereo, and you should turn off zones and sources that are not in use ([Speaker Zone Settings, page 19](#)).

- 1 Select  > **SETTINGS** > **DEVICE NAME**.
- 2 Enter a unique name for the device.

Setting the Home Zone

The home zone is the speaker zone that you adjust by default when you turn the dial.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE** > **ASSIGN HOME ZONE**.
- 3 Select a zone.

Selecting a Source

- 1 Select .
- 2 Turn the dial to highlight a source.
- 3 Press the dial to select the source.

Adjusting the Backlight Brightness

NOTE: If you connected the dim wire on the wiring harness to the boat's illumination wire, the backlight dims automatically when the boat lights are on. This may affect how you adjust the brightness setting.

- 1 Select  > **BRIGHTNESS**.
- 2 Adjust the brightness level.

Audio Control

Adjusting the Volume

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.

- 1 Turn the dial to adjust the volume for the home zone on the stereo.
- 2 If necessary, press the dial to switch between zones.

Adjusting the Subwoofer Level

You can adjust the subwoofer level for each zone.

- 1 Press the dial, and select a zone with a connected subwoofer.
- 2 Press and hold the dial.
The SUB LEVEL adjustment for the zone appears.
- 3 Adjust the subwoofer level and press the dial to set it.

Adjusting the Tone

- 1 Select  > **AUDIO**.
- 2 Select the zone to adjust.
- 3 Press the dial to select a tone.
- 4 Adjust the tone level and press the dial to set it.

Disabling the Loud Setting for a Zone

The LOUD setting maintains frequency response at low volumes and increases perceived loudness at high volumes. This setting is enabled by default in all zones.

- 1 Select  > **AUDIO**.
- 2 Select a zone to adjust.
- 3 Select **LOUD** to clear the check box.

Adjusting the Gain for an Auxiliary Device

You can adjust the gain for a connected auxiliary device to achieve a volume level similar to that of other media sources. You can adjust the gain in 1 dB increments.

- 1 Select an auxiliary source.
- 2 Select an option:
 - To increase the gain, select .
 - To decrease the gain, select .

NOTE: To achieve the best audio quality when using a portable media player with headphone output, it may be necessary to adjust the volume control on the media player, instead of adjusting the gain.

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.

You can set the balance, volume limit, tone, subwoofer frequency, and name for each zone, and configure other zone-specific settings ([Speaker Zone Settings, page 19](#)).

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

DSP Settings

This stereo features digital signal processing (DSP). You can select pre-configured DSP settings for JL Audio® speakers and amplifiers to optimize audio reproduction in their installed locations.

All DSP settings are configured using the Garmin® Audio remote control app ([Garmin® Audio Wireless Remote Control App, page 25](#)).

Configuring the DSP Settings

You must download and install the Garmin® Audio remote control app on your compatible Apple® or Android™ device before you can configure the DSP settings ([Garmin® Audio Wireless Remote Control App, page 25](#)).

You can configure the DSP settings to optimize the sound on each zone with the installed speakers, amplifiers, and environment.

- 1 From the settings menu on your Apple or Android device, connect to the stereo using Bluetooth® technology.
- 2 Open the Garmin Audio remote control app on your compatible Apple or Android device.
- 3 If necessary, select the stereo you want to configure.
- 4 Select .
- 5 If necessary, select the **MUSIC** tab.
- 6 Select a zone.
- 7 Select **DSP SETTINGS**.
- 8 Configure the DSP settings as needed, depending on the models of JL Audio® speakers and amplifiers connected to the zone.
- 9 Return to the **MUSIC** tab and select an option:
 - To save the configured settings, select **Send**.
 - To cancel the configured settings, select **Revert Changes**.

NOTE: DSP settings or updates for the zone are not applied on the stereo until you select the button to send the settings.

- 10 Repeat these steps for each zone.

Automatic Volume Adjustment Based on Speed

If your stereo is connected to a NMEA 2000® network with a device that provides speed information such as an engine, chartplotter, GPS antenna, water speed sensor, or wind speed sensor, you can set the stereo to adjust the volume automatically based on the selected speed source ([Enabling Automatic Volume Adjustment Based on Speed, page 20](#)).

For example, if a chartplotter with an internal GPS antenna or a stand-alone GPS antenna is on the same NMEA 2000 network as the stereo and you set the SPEED SOURCE to SPEED OVER GROUND, the volume increases as your speed increases.

NOTE: When the volume increases to adjust for speed, the actual volume output changes, but the volume-level indicator bar and number stays the same.

For more information about connecting the stereo to a NMEA 2000 network, see the installation instructions for your stereo.

Media Player Connection

WARNING

Minimize interaction with the media player display while operating the vessel, because doing so can cause distraction that could lead to an accident resulting in serious personal injury or death.

NOTICE

Always disconnect your media player from the stereo when not in use and do not leave it in your vessel. This can help reduce the risk of theft and damage from extreme temperatures.

The stereo accepts a variety of media players, including smartphones and other mobile devices. If it is supported by your compatible media player, you can connect it using a cable with a USB C connector to the USB port on the stereo.

Bluetooth® Device Playback

You can pair the stereo to up to eight Bluetooth media devices.

You can control the playback using the stereo controls on all Bluetooth devices. On Bluetooth devices that do not support media browsing, you should select the song or playlist on the media device.

The availability of song information such as song title, artist name, track duration, and album art depends on the capability of the media player and music application.

Connecting a Compatible Bluetooth® Device

You can play media from a compatible Bluetooth device using the Bluetooth wireless connection.

You can control the music playback with the media app on a Bluetooth device or using the Garmin® Audio remote control app (*Garmin® Audio Wireless Remote Control App*, page 25).

NOTICE

Due to Bluetooth standards, connecting a Bluetooth device to the stereo does not create a secure, private connection.

- 1 Select the **BLUETOOTH** source.
- 2 Select  > **BLUETOOTH** > **CONNECTIONS** > **DISCOVERABLE** to make the stereo visible to your compatible Bluetooth device.
- 3 Enable Bluetooth on your compatible Bluetooth device.
- 4 Bring the compatible Bluetooth device within 10 m (33 ft.) of the stereo.
- 5 On your compatible Bluetooth device, search for Bluetooth devices.
- 6 On your compatible Bluetooth device, select the stereo from the list of detected devices.
NOTE: The stereo appears in the Bluetooth device list as the device name (the default name is JL Audio® A60 unless it was changed in the settings).
- 7 On your compatible Bluetooth device, follow the on-screen instructions to pair and connect to the discovered stereo.
When pairing, your compatible Bluetooth device may ask you to confirm a code on the stereo. If the stereo shows a code, you can compare them before pairing. If the stereo does not display a code, it should connect correctly when you confirm the message on the Bluetooth device.
- 8 If your compatible Bluetooth device does not immediately connect to the stereo, repeat steps 1 through 7.
NOTE: If another Bluetooth device is already playing music on the stereo, connecting a new device will not interrupt playback. You must select the newly-added device if you want to use it instead (*Selecting a Different Bluetooth® Device*, page 10).

The DISCOVERABLE setting is disabled automatically after two minutes.

NOTE: On some Bluetooth devices, adjusting the volume on the device affects the volume level on the stereo.

Bluetooth® LE Audio Audio

When a compatible Bluetooth LE Audio device is paired to the stereo, you may need to enable the Bluetooth LE Audio setting on your device. See the documentation for your compatible Bluetooth LE Audio device for more information.

Bluetooth® Range Information

The stereo and Bluetooth wireless devices have a range of 10 m (33 ft.). For optimal performance, the Bluetooth wireless device should also have a clear line of sight to the stereo.

Selecting a Different Bluetooth® Device

When you have more than one Bluetooth device paired to the stereo, you can select a different device when needed. You can pair the stereo with up to eight Bluetooth devices.

- 1 With the **BLUETOOTH** source selected, select  > **BLUETOOTH** > **CONNECTIONS** > **PAIRED DEVICES**.
- 2 Select a Bluetooth device.

Bluetooth® Source Menu and Settings

With the **BLUETOOTH** source selected, select  > **BLUETOOTH**.

NOTE: The options in this menu vary based on the connected device.

CONNECTIONS > DISCOVERABLE: Allows the stereo to be visible to Bluetooth devices. You can turn off this setting to prevent possible interruption to audio after pairing a Bluetooth device to the stereo.

NOTE: When you turn on the stereo, it automatically becomes discoverable for two minutes if the last paired Bluetooth device is out of range or if no Bluetooth devices are paired. This occurs regardless of the selected source and the DISCOVERABLE or the AUTO CONNECT settings ([Disabling Bluetooth® Auto Connection, page 11](#)).

CONNECTIONS > PAIRED DEVICES: Shows a list of Bluetooth devices paired with the stereo. You can select a device in the list to connect it to the stereo if it is in range.

CONNECTIONS > REMOVE DEVICE: Removes the Bluetooth device from the stereo. To listen to audio from this Bluetooth device again, you must pair the device again.

NOTE: You should also remove the stereo from the list of paired devices on your Bluetooth device to avoid connection issues when pairing the device again.

REPEAT: Sets the repeat mode for the current selection (Apple® devices only). You can repeat the current selection by selecting the REPEAT ONE option. You can repeat all items in the selection by selecting the REPEAT ALL option.

SHUFFLE: Shuffles the tracks in the folder, album, or playlist (Apple devices only).

Disabling Bluetooth® Auto Connection

By default, the stereo automatically reconnects to the last connected Bluetooth device when you turn it on. You can disable this setting.

Select  > **SETTINGS** > **SOURCE** > **BLUETOOTH** > **AUTO CONNECT**.

When the AUTO CONNECT checkbox is clear, the stereo will not attempt to automatically reconnect to a Bluetooth device. When this feature is disabled, you must select a Bluetooth device manually to connect it ([Selecting a Different Bluetooth® Device, page 10](#)).

USB Device Playback

You can connect various USB media players, USB flash drives, and smartphones to the stereo. How you access the USB source depends on the type of connected media player or smartphone.

Media Player	Source Selections
Android device	USB audio
Apple device	iPOD
USB flash drive	USB
MP3 media player (as a mass-storage device)	USB If your MP3 media player does not support mass-storage when connected using USB, you must connect it to the stereo as an auxiliary device (Connecting an Auxiliary Device, page 17).

You can control the playback using the stereo controls on all USB devices, and on some devices you can browse the music collection from the menu on the stereo. On USB devices that do not support media browsing, you should select the song or playlist on the media device.

The availability of song information such as song title, artist name, and track duration depends on the capability of the media player and music application.

USB Device Compatibility

You can use a USB flash drive or the USB cable included with your media player to connect a media player or mobile device to the USB port.

The stereo is compatible with iAP2 Apple® devices.

The stereo is compatible with media players and other USB mass storage devices, including USB flash drives. Music on USB drives must meet these conditions:

- The music files must be formatted as MP3, AAC (.m4a), ALAC (.m4a), WAV, or FLAC files.
- If you connect a portable hard drive, you must connect it to an external power source. The USB port on this stereo cannot provide power for a portable hard drive.
- The USB mass storage device must be formatted using exFAT or FAT32 (MS-DOS).

Connecting a USB Device

You can connect a USB device to the USB port on the stereo.

- 1 Locate the USB port on the back of the stereo.
- 2 Connect the USB device to the USB port.

Controlling Music Playback on a USB Flash Drive or Media Player

- 1 Connect a compatible USB flash drive or media player to the stereo.
- 2 Select the **USB** source.
- 3 Select  > **USB**.
- 4 Select the name of the USB device.
- 5 Browse the music files on the device and begin playback.

You can use the stereo controls to select, play, pause, and skip tracks.

TIP: If the USB media player has a screen and controls, you can use the controls on the USB media player to control playback.

Controlling Music Playback on a Connected Android™ Device

You can connect an Android device to the stereo using a USB cable to play media files stored on the Android device. To play media from an app on the Android device, you should connect the device using Bluetooth® technology instead ([Bluetooth® Device Playback, page 10](#)).

- 1 Connect a compatible Android device to the stereo using an appropriate USB-C® cable.
- 2 If necessary, enable USB file transfer on your Android device.
See the documentation available for your Android device for more information.
- 3 Select the **USB** source on the stereo.
- 4 Select  > **USB**.

- 5 Browse the music files on the Android device and begin playback.
You can use the stereo controls to select, play, pause, and skip tracks.

Controlling Music Playback on a Connected Apple® Device

- 1 Connect a compatible iAP2 Apple device to the stereo using USB.
- 2 Select the **iPOD** source on the stereo.
- 3 Launch a music application on the connected Apple device, and begin playback.

You can use the music application on the Apple device to control playback, or you can use the stereo controls to select, play, pause, and skip tracks. If you are using the AppleMusic app, you can also browse the music directory using the stereo controls.

USB Source Settings

With a USB device connected and a USB source selected, select  > **USB**.

NOTE: You can also select the name of the connected device to browse the file contents using this menu. The options in this menu vary based on the connected device.

REPEAT: For a USB source, select to start playing the tracks in the list from the beginning after the last track has played.

For an iPOD source, select REPEAT ONE to repeat the current track, or select REPEAT ALL to start playing the tracks in the current selection from the beginning after the last track has played.

SHUFFLE: For a USB source, select to randomly play the tracks in the list.

For an iPOD source, select to randomly play the tracks in the current selection.

Radio

To listen to AM, FM, or DAB radio, you must have a suitable marine AM/FM antenna properly connected to the stereo and you must be within range of a broadcasting station. To listen to DAB stations, you must set the appropriate tuner region ([Setting the Tuner Region, page 15](#)). For instructions on connecting an antenna, see the stereo installation instructions.

Setting the Tuner Region

You must select the region you are in to receive AM and FM stations properly.

You must select the region you are in to receive DAB stations properly.

NOTE: DAB stations are not available in all regions.

- 1 Select  > **SETTINGS**.
- 2 Select **TUNER REGION**.
- 3 Select the region you are in.

Changing the Radio Station

- 1 Select an applicable source, such as **FM**.
- 2 Select  repeatedly to move through the tuning modes, and select an option:
 - Select **AUTO** to scan and stop on the next available station.
 - Select **MANUAL** to select a station manually.
 - Select **PRESET** to select a saved station preset.
- 3 Select  or  to tune to the station.

When in MANUAL tuning mode, you can hold  or  to quickly advance through the stations.

DAB Playback

DAB broadcasts are not available in all regions. When the stereo is not set to a compatible region, the DAB source is not available.

See the troubleshooting section if you cannot access the DAB source or if DAB stations are not playing properly. (*The stereo does not receive DAB stations, page 29*)

Setting the Tuner Region

You must select the region you are in to receive DAB stations properly.

- 1 Select  > **SETTINGS**.
- 2 Select **TUNER REGION**.
- 3 Select the region you are in.

Scanning for DAB Stations

NOTE: Because DAB signals are broadcast in select countries only, you must set the tuner region to a location where DAB signals are broadcast.

- 1 Select the **DAB** source.
- 2 Hold  to scan for available DAB stations.

When scanning is complete, the first available station in the first ensemble found begins playing.

NOTE: After the first scan is complete, you can hold  again to re-scan for DAB stations. When the re-scan is complete, the system starts playing the first station in the ensemble you were listening to when you started the re-scan.

Changing DAB Stations

- 1 Select the **DAB** source.
- 2 If necessary, hold  to scan for local DAB stations.
- 3 Select  or  to change the station.

When you reach the end of the current ensemble, the stereo automatically changes to the first available station in the next ensemble.

TIP: You can hold  or  to change the ensemble.

Selecting a DAB Station from a List

- 1 Select the **DAB** source.
- 2 If necessary, hold  to scan for local DAB stations.
- 3 Select  > **DAB** > **BROWSE** > **STATIONS**.
- 4 Select a station from the list.

Selecting a DAB Station from a Category

- 1 Select the **DAB** source.
- 2 If necessary, hold  to scan for local DAB stations.
- 3 Select  > **DAB** > **BROWSE** > **CATEGORIES**.
- 4 Select a category from the list.
- 5 Select a station from the list.

Presets

You can save your favorite AM stations and FM stations as presets for easy access.

You can save your favorite DAB stations if the stereo is set to the correct tuner region ([DAB Playback, page 15](#)).

Saving a Station or Channel as a Preset

- 1 With an applicable source selected, tune the stereo to a station or a channel.
- 2 Press and hold the dial, and select .

TIP: For the AM or FM source, you can press and hold  to save the current station or channel as a preset.

TIP: You can also select , the name of the source, and **PRESETS > SAVE CURRENT** to save the current station or channel as a preset.

Selecting a Preset from a List

- 1 With an applicable source selected, press and hold the dial.

TIP: You can also select , the name of the source, and **PRESETS > VIEW PRESETS** to view the list of presets.

- 2 Select a preset.

Removing Presets

- 1 With an applicable source selected, press and hold the dial.

- 2 Select .

- 3 Select each preset station or channel you want to remove.

- 4 When you are finished removing presets, select .

TIP: You can also select , the name of the source, and **PRESETS > REMOVE PRESETS** or **REMOVE ALL PRESETS** to remove preset stations or channels.

- 5 Press the dial to exit the screen.

Connecting an Auxiliary Device

You can connect various auxiliary devices to the stereo. These devices have either RCA connectors, a line output, or a headphone output jack.

- 1 Locate the auxiliary connectors on the wiring harness.
- 2 If necessary, connect an RCA-to-3.5 mm adapter cable to the auxiliary device.
- 3 Connect the auxiliary device to the AUX IN RCA connectors on the wiring harness.
- 4 Select the **Aux** source.

General Settings

Select  > **SETTINGS**.

When a check box is filled, the option is on. When the check box is clear, the option is off.

DEVICE NAME: Sets a name for this device.

LANGUAGE: Sets the language used on the device.

TUNER REGION: Sets the region used by the FM and AM sources.

This setting is also needed to configure the DAB source.

TELEMUTE: Sets the behavior of the stereo when it detects a signal on the TELEMUTE wire in the wiring harness. This is commonly used to change to the Aux1 source when you hold the button on a handheld microphone. You can also choose to either mute the audio or change to the Aux1 source when connected to a hands-free mobile phone kit. See your handheld microphone or hands-free mobile phone kit instructions for more information.

NOTE: This setting does not affect a phone connected to the stereo using Bluetooth® technology.

POWER OPTIONS: Adjusts the power settings, such as POWER SAVE ([Power Options, page 22](#)).

ZONE: Enables you to configure the speaker zones ([Speaker Zone Settings, page 19](#)).

SOURCE: Allows you to enable, disable, and name the sources on the stereo ([Source Settings, page 23](#)).

UPDATE: Updates the software on the stereo or connected devices using an update file on a connected USB flash drive ([Update Options, page 24](#)).

NOTE: It is not necessary to use this menu if you are updating the software using the Garmin® Audio app on a mobile device instead of using an update file loaded onto a USB flash drive.

UPDATE > FACTORY RESET: Restores all settings to the factory default values.

ABOUT: Displays the software version information for the stereo and connected accessories.

Speaker Zone Settings

Disabling the Internal Amplifier

If you do not connect speakers directly to zones 1 and 2, you can disable the internal amplifier to reduce power consumption.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE**.
- 3 Select **INTERNAL AMP ON** to clear the check box.

Setting the Home Zone

The home zone is the speaker zone that you adjust by default when you turn the dial.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE** > **ASSIGN HOME ZONE**.
- 3 Select a zone.

Linking Zones

You can link zones 1 and 2 to keep the volume levels synchronized. Adjusting the volume of either of the linked zones affects both zones.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE** > **ZONE 2** > **LINK TO ZONE 1**.

NOTE: After zones 1 and 2 are linked, you cannot adjust the volume of each zone individually.

Disabling a Zone

You can disable an unused zone and remove it from the audio level pages. When a zone is disabled, you cannot change any of the settings for that zone. You cannot disable zone 1.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE**.
- 3 Select a zone.
- 4 Select **ZONE ENABLED** to clear the check box.

Setting a Zone Name

You can set a name for a speaker zone to make it easier to identify.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE**.
- 3 Select a zone.
- 4 Select **ZONE NAME**, and select an option:
 - Select a pre-defined name from the list.
 - Select **CUSTOM NAME**, and enter a unique name for the zone.

Synchronizing the Source and Zone Volume Levels

You can synchronize the volume levels on one or all zones with some source devices, such as a Bluetooth® source.

- 1 Select  > **SETTINGS** > **ZONE** > **PHONE VOLUME SYNC**.
- 2 Select a zone or **ALL**.

When you adjust the volume on the source device, the volume on the selected zone is also adjusted.

Maintaining Individual Zone Volume Levels

If you adjust the volume levels of individual zones so that some zones are louder than others, the individual zone volume settings are all affected when you adjust the volume for ALL zones. By default, if you adjust the volume for ALL to 00, this sets of the volume levels for all zones to 00 and resets all individual zone volume adjustments. You can enable the KEEP VOLUME RATIOS option to retain individual zone volume adjustments when you adjust the volume for ALL to 00.

NOTE: This setting applies to volume adjustments on the stereo or a connected remote control only. If you adjust the volume on the stereo using a connected chartplotter or NRX remote control, the volume levels will still be reset.

TIP: For the best results when enabling this setting, you should set the power-on volume limit to 24 ([Adjusting the Power-On Volume Limit, page 20](#)).

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE** > **KEEP VOLUME RATIOS**.

Enabling Automatic Volume Adjustment Based on Speed

- 1 Select  > **SETTINGS** > **ZONE** > **SPEED VS VOLUME** > **ENABLED**.
- 2 If needed, update the settings to select the speed source ([Automatic Volume Control Settings, page 20](#)).

Automatic Volume Control Settings

Select  > **SETTINGS** > **ZONE** > **SPEED VS VOLUME**.

ENABLED: Enables the automatic volume control feature.

SPEED SOURCE: Sets the source that the stereo uses to determine the speed ([Speed Source Information, page 20](#)).

MAX/MIN SPEED: Sets the expected maximum and minimum speed range for the selected SPEED SOURCE. The MIN setting indicates the speed at which the volume plays at the level you set by turning the dial. The MAX setting indicates the speed at which the volume plays at the highest level set in the VOLUME INCREASE setting.

TIP: You should start by setting these values at the speeds you typically expect from your engine or sensor and adjust them as needed.

VOLUME INCREASE: Sets the total volume increase for each zone when the selected SPEED SOURCE reaches the set maximum speed set in the MAX/MIN SPEED setting. The higher you set this level, the louder the volume will be as you approach the set maximum speed.

NOTE: When the volume increases to adjust for speed, the actual volume output changes but the volume-level indicator bar and number stays the same.

CUSTOM UNITS: Changes the measurement unit used to indicate the vessel or wind speed.

Speed Source Information

Select  > **SETTINGS** > **ZONE** > **SPEED VS VOLUME** > **SPEED SOURCE**.

ENGINE SPEED: Uses the RPM reading provided by a supported NMEA 2000® engine. The volume increases as the engine RPM increases from the set MIN speed to the set MAX speed. If multiple supported engines are connected, the stereo uses the average RPM reading from all engines.

SPEED OVER GROUND: Uses the speed over ground (SOG) reading provided by a supported NMEA 2000 GPS antenna or chartplotter with an internal GPS antenna. The volume increases as the SOG increases from the set MIN speed to the set MAX speed.

SPEED THROUGH WATER: Uses the speed through water (STW) reading provided by a supported NMEA 2000 water-speed sensor. The volume increases as the STW increases from the set MIN speed to the set MAX speed.

WIND SPEED: Uses the wind speed reading provided by a supported NMEA 2000 wind-speed sensor. The volume increases as the wind speed increases from the set MIN speed to the set MAX speed.

Adjusting the Power-On Volume Limit

By default, when you turn on the stereo, the system automatically reduces the volume to level 12 if it was louder than that when you turned it off. You can adjust this limit if you want to retain a louder volume or limit to a lower volume when you turn on the stereo.

NOTE: This setting affects all zones on the stereo.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE** > **POWER ON VOLUME LIMIT**.
- 3 Adjust the volume limit.

Adjusting the Subwoofer Filter

You can use the subwoofer filter setting to control the subwoofer cutoff frequency for each zone, which can enhance the blend of the sound produced by the speakers and the subwoofer. Audio signals above the selected frequency are not passed to the subwoofer.

NOTE: If a DSP setting has been applied to the zone using the Garmin® Audio app, this setting cannot be changed on the stereo.

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE**.
- 3 Select a zone.
- 4 Select **SUB. FREQ.**.
- 5 Select a frequency.

Adjusting Additional Audio Settings for a Zone

- 1 Select  > **SETTINGS**.
- 2 Select **ZONE**.
- 3 Select a zone.
- 4 Select one or more options:
 - To limit the maximum volume output of this zone, select **VOLUME LIMIT**, and adjust the level.
 - To adjust the right and left speaker balance of this zone, select **BALANCE**, and adjust the balance.
 - To reduce the power output to the external amplifier associated with this zone, select **EXT. AMP GAIN**, and adjust the gain level.
 - To reduce the power output to the internal amplifier associated with this zone, select **INT. AMP GAIN**, and adjust the gain level.

NOTE: This setting is available only for zones associated with an internal amplifier, typically zones 1 and 2.
 - To change the output of this zone from stereo to mono, select **MONO**.

NOTE: The mono setting is useful if a listening position is closer to one speaker than the other and predominantly hear only that channel. The mono setting combines both channels in each speaker in the zone.

Power Options

Select  > **SETTINGS** > **POWER OPTIONS**.

POWER SAVE: Disables the LCD backlight after one minute of inactivity to save battery power and resumes with any user action.

Source Settings

Select  > **SETTINGS** > **SOURCE**, and select the name of the source you want to configure.

NOTE: This menu contains system-wide source settings. Most sources also have source-specific settings. See the sections of this manual for each source for more information about source-specific settings.

Not all options are available for every source on the stereo.

SOURCE ENABLED: Enables and disables the source on this stereo. You may want to disable sources that will never be used on the stereo so they no longer appear on the source-selection screen.

SOURCE NAME: Changes the name of the source as it appears on this stereo.

Update Options

NOTICE

Do not turn off the device or disconnect the power during a software update. Turning off the power during a software update may cause the device to become unresponsive.

Depending on your stereo and network connections, you may have multiple software-update options available. Before proceeding with an update, you should examine your devices and connections to determine the most efficient way to proceed ([Software Updates, page 26](#)).

NOTE:

- The device may restart a few times when updating. This is normal.
- You can program only newer versions of software on the device.

Select  > **SETTINGS** > **UPDATE**.

UPDATE DEVICES: Updates the stereo using a valid software update file on a connected USB flash drive ([Updating the Software Using a USB Flash Drive, page 26](#)).

ACCESSORIES > NRX REMOTE: Updates an optional NRX remote connected to the NMEA 2000 port or NMEA 2000® network.

SAVE GARMIN DEVICES: Saves connected device information to a connected USB flash drive. This information is required by the Garmin Express™ program when preparing the USB flash drive with the proper software update files.

FACTORY RESET: Resets default settings.

Additional Stereo Control Options

Connecting to a Garmin® Watch

For more information about the watch, see the watch manual at garmin.com/manuals.

- 1 Following the instructions in the watch manual, install the Garmin Audio app from the Connect IQ™ store onto the watch.
- 2 On the stereo, select the **BLUETOOTH** source.
- 3 Select  > **BLUETOOTH** > **CONNECTIONS** > **DISCOVERABLE**.
The stereo remains discoverable for two minutes.
- 4 Bring the watch within 3 m (10 ft.) of the stereo.
NOTE: Stay 10 m (33 ft.) away from other Bluetooth® devices while pairing.
- 5 Open the Garmin Audio app on the watch.
The first time you open the app on the watch, the watch automatically pairs with and connects to the stereo. If you need to pair to another stereo, in the Garmin Audio app, select **Settings** > **Pair new**.
- 6 Control the audio playback using the Garmin Audio app on the watch.

After the devices are paired, they connect automatically when they are turned on, within range, and the app is open on the watch.

Garmin® Audio Wireless Remote Control App

You can use the Garmin Audio remote control app on your compatible Apple® or Android™ device to adjust the stereo volume, change the source, control playback, select and manage radio presets, and adjust stereo settings. You can use the app to set up and configure DSP profiles on the stereo.

The app communicates with the stereo using a wireless connection to the mobile device. You must connect your compatible device to the stereo using Bluetooth® technology to use the app.

For information about the Garmin Audio remote control app for compatible Apple or Android devices, go to the Apple App StoreSM or the Google Play™ store.

JL Audio® Stereo Network Connection and Control

When connected using a supported networking method, you can fully control compatible JL Audio entertainment systems on compatible multi-function displays installed at the helm, flybridge, or navigation station of the vessel. This provides integrated entertainment control and a less cluttered console.

The connected multi-function display becomes the portal on which you can control all audio on the vessel, no matter where on the vessel the connected stereo is installed. The compatible JL Audio stereo can be installed out of sight if space is an issue and users need to access the stereo only to replace removable media.

This device can communicate with a compatible multi-function display using existing industry-standard NMEA 2000® networks.

NMEA 2000® Remote Control and Display

The stereo can be controlled by compatible JL Audio® wired remote controls installed in the audio zones throughout the vessel. Operating the entertainment system from the remote control is similar to operating it from the main stereo.

Compatible JL Audio wired remote controls operate over an existing NMEA 2000 network, so wiring the remote controls directly to the stereo is not necessary. All remote controls connected to the same NMEA 2000 network as the stereo can control the stereo.

NMEA 2000® Information

NMEA 2000 is the most popular marine standard for data communication within vessels. It has become the standard for sending navigation and engine management data within vessels. JL Audio® incorporates NMEA 2000 functionality in its audio remote control devices. This enables the user to monitor relevant NMEA 2000 Parameter Group Number (PGN) data available over the NMEA 2000 network on a compatible connected remote control.

Appendix

Cleaning the Device

- 1 Dampen a soft, clean, lint-free cloth with fresh water.
- 2 Gently wipe the device.

Software Updates

For best results, you should update the software in all JL Audio® devices at the time of installation to ensure compatibility.

Depending on your stereo and connections, you may be able to use any or all of these update methods:

- You can update the software using the Garmin® Audio remote control app on your compatible Apple® or Android™ device. To download the app and update the device software, go to the Apple App StoreSM or the Google Play™ store.
- If you have a compatible Apple device, you can use an appropriate USB sync cable connected to the USB-C® port on the stereo and to your Apple device to update the stereo software through the Garmin Audio app. To download the app and update the device software, go to the Apple App Store or the Google Play store.
- If you prefer to not use the remote control app, you can update the software using a single-stereo update file loaded onto a USB flash drive ([Updating the Software Using a USB Flash Drive, page 26](#)).
- If you have a compatible Garmin chartplotter connected to the same NMEA 2000 network as the stereo, you can update the stereo using a network full marine package update downloaded from the Garmin website or from Garmin Express™ and loaded onto a memory card ([Updating the Software Using a NMEA 2000® Connected Garmin® Chartplotter, page 28](#)).

Updating the Software Using the Garmin® Audio App

Your mobile device must be connected to the internet in order to download the necessary software update files.

NOTICE

Do not turn off the stereo or disconnect the power during a software update. Turning off the power during a software update may cause the device to become unresponsive.

NOTE:

- The stereo may restart a few times while updating the software. This is expected behavior.
 - You can program only newer versions of software on the stereo.
- 1 Connect your mobile device to the stereo using a Bluetooth® connection.
 - 2 Open the Garmin Audio app, and verify that you can see the stereo in the app.
 - 3 In the Garmin Audio app, select  > **GENERAL** > **Software Update** > **Online Software Update**.
The app downloads the software update file and transfers the software update to the stereo over the Bluetooth connection, and the stereo updates the software and restarts.
 - 4 If the stereo doesn't update the software and restart, reconnect to the stereo in the Garmin Audio app and repeat the previous step.

Updating the Software Using a USB Flash Drive

You can update the device software using a USB flash drive. You can prepare a suitable USB flash drive by manually downloading and loading the update files, or you can use the Garmin Express™ app.

NOTICE

Do not turn off the device or disconnect the power during a software update. Turning off the power during a software update may cause the device to become unresponsive.

NOTE:

- You cannot update the software using a USB flash drive formatted using the NTFS file system. If you encounter problems updating the device, format the USB flash drive using FAT32, and try the update process again.
 - The device may restart a few times while updating the software. This is expected behavior.
 - You can program only newer versions of software on the device.
- 1 Select a method to prepare the USB flash drive for updating the stereo software:
 - Download the software update manually, and load it onto the USB flash drive ([Downloading a Software Update Manually, page 27](#)).

- Prepare the USB flash drive using the Garmin Express app (*Downloading a Software Update using the Garmin Express™ App, page 27*).
- 2 After you prepare the USB flash drive with the software-update files, insert the USB flash drive into the stereo, and use the stereo interface to proceed with the update (*Updating the Software Using a USB Flash Drive, page 26*).

Downloading a Software Update Manually

You can download the proper update file for your stereo and stereo accessories from the Garmin® website, and manually prepare a USB flash drive to perform the update.

- 1 Go to the page for your stereo on support.garmin.com.
- 2 Download the stereo update file to your computer.
- 3 Insert a properly-formatted USB flash drive of sufficient size into your computer.
- 4 Extract the contents of the .zip file to the root of a USB flash drive.
The contents of the software update are contained in a folder named **Garmin**.
- 5 Eject or safely remove the USB flash drive from the computer.

Install the update on the stereo (*Updating the Software Using a USB Flash Drive, page 26*).

Downloading a Software Update using the Garmin Express™ App

You should use a blank USB flash drive for updates. The update process erases the content and reformats the USB flash drive.

- 1 Turn on the stereo.
- 2 Insert the USB flash drive into the USB port on the stereo.
- 3 Select  > **SETTINGS** > **UPDATE** > **SAVE GARMIN DEVICES**.
The stereo writes a small file on the USB flash drive that is used by the Garmin Express app to identify the stereo and connected devices and download the appropriate update file.
- 4 After about ten seconds or more, remove the USB flash drive from the stereo.
- 5 If necessary, install the Garmin Express app on your computer (*Installing the Garmin Express™ App on a Computer, page 27*).
- 6 Open the Garmin Express app on your computer.
- 7 Insert the USB flash drive into the computer.
- 8 If available, select your vessel and device or select the option to add a device by reading the USB flash drive.
- 9 If updates are available, select **Software Updates** > **Continue**.
- 10 Read and agree to the terms.
- 11 Select the drive letter for the USB flash drive.
- 12 Review the reformat warning, and select **OK**.
- 13 Wait while the software update is copied to the USB flash drive.
Copying the update file onto the USB flash drive may take from a few minutes up to a few hours.
- 14 When the process is complete, close the Garmin Express app.
- 15 Eject or safely remove the USB flash drive from the computer.

Install the update on the stereo (*Updating the Software Using a USB Flash Drive, page 26*).

Installing the Garmin Express™ App on a Computer

You can install the Garmin Express app on a Windows® or Mac® computer.

- 1 Go to garmin.com/express.
- 2 Select **Download for Windows** or **Download for Mac**.
- 3 Follow the on-screen instructions.

Updating the Software from a Prepared USB Flash Drive

Before you update the software, you must load the software update files onto a suitable USB flash drive either manually (*Downloading a Software Update Manually, page 27*) or by using the Garmin Express™ app (*Downloading a Software Update using the Garmin Express™ App, page 27*).

NOTICE

Do not turn off the stereo or disconnect the power during a software update. Turning off the power during a software update may cause the stereo to become unresponsive.

NOTE: The stereo may restart a few times while updating the software. This is expected behavior.

- 1 Turn on the stereo.
- 2 After the stereo boots fully, insert the USB flash drive into the USB port.
NOTE: In order for the update prompt to appear automatically, you must allow the device to fully boot before inserting the USB flash drive.
- 3 If you are prompted to update the software automatically, select **Install Now** to start the update and skip the next step.
- 4 If the update prompt does not appear automatically, select an option:
 - To update the stereo software, select  > **SETTINGS** > **UPDATE** > **UPDATE DEVICES**.
 - To update accessories connected to the stereo, select  > **SETTINGS** > **UPDATE** > **ACCESSORIES** and select the name of the accessory you want to update.

NOTICE

To ensure all accessories are updated properly, you should update the stereo software first, then update the accessories.

- 5 Wait several minutes while the update process completes.
- 6 Leave the USB flash drive in place while the stereo updates.
The stereo may reboot multiple times during the update process.
- 7 When prompted, select **RESTART** to finalize the update process.
- 8 After the stereo fully boots after restarting, remove the USB flash drive.
NOTE: If the USB flash drive is removed before the device restarts fully, the update is not complete.

Updating the Software Using a NMEA 2000® Connected Garmin® Chartplotter

When connected to the same NMEA 2000 network as a compatible Garmin chartplotter, you can update your compatible JL Audio® stereos and accessories from the chartplotter.

You can perform a Garmin network update to update all of the compatible Garmin and JL Audio devices connected to the network.

Viewing E-label Regulatory and Compliance Information

The label for this device is provided electronically. The e-label may provide regulatory information, such as identification numbers provided by the FCC or regional compliance markings, as well as applicable product and licensing information. Not available on all models.

Select  > **SETTINGS** > **ABOUT** > **REGULATORY INFORMATION**.

Troubleshooting

The stereo does not respond to key presses

- Hold  until the stereo turns off, and turn it on again to reset the stereo.
- Disconnect power to the stereo for two minutes to reset the stereo.

The stereo keeps locking up when connected to an Apple® device

- Press and hold the power button to reset the stereo.
- Reset the Apple device. Go to www.apple.com for more information.
- Make sure you have the latest version of iTunes® and the latest operating software on your Apple device.

The stereo is not finding my connected Apple® device

- Make sure your Apple device supports Interface Accessory Protocol 2 (iAP2).
This stereo is not compatible with iAP1 devices.
- Make sure you have the latest version of iTunes® and the latest operating software on your Apple device.
- Make sure you have the latest version of the Garmin® Audio app on your Apple device.
- Try rotating and re-inserting the USB-C cable into the stereo.
- Try using a different cable, preferably an Apple OEM cable.
- If you are using a USB-A to USB-C adapter, try using a different adapter.
- Reset the Apple device.
Go to apple.com for more information.
- Contact your JL Audio® dealer, or go to support.garmin.com.

My Bluetooth® audio is interrupted by short breaks

- Ensure the media player is not covered or obstructed.
Bluetooth technology performs best with line-of-sight operation.
- Bring the media player within 10 m (33 ft.) of the stereo.
- Turn off the **DISCOVERABLE** setting after pairing a Bluetooth device to the stereo.

The stereo does not display all song information from my Bluetooth® source

The availability of song information such as song title, artist name, track duration, and album cover artwork depends on the capability of the media player and music application.

The stereo does not receive DAB stations

NOTE: The JL Audio® A60 includes a built-in DAB module and receives DAB signals through a standard AM/FM antenna.

- Ensure the stereo is set to a tuner region where DAB stations are broadcast ([Setting the Tuner Region, page 15](#)).
- Check the antenna port for the connected antenna.
- For additional information, go to support.garmin.com and contact Product Support.

Software Update Troubleshooting

If a stereo software update you downloaded from the Garmin® website does not complete successfully, perform these steps.

- Make sure the update file you downloaded is intended for the stereo model you are updating. Only software update files intended for the specific stereo will update the stereo.
- Make sure the update file is a newer version than what is presently installed on the stereo. Only newer software update files can be installed on a stereo.
- Make sure the update file was extracted from the .zip file and loaded onto the root of the USB flash drive. When properly prepared, the USB flash drive will have a directory named **Garmin** containing the update files.
- Make sure the USB flash drive is formatted using the FAT32 file system. The stereo will not apply an update from a USB flash drive formatted using the NTFS file system.

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
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.

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.

Onboard, Class D Amplifier

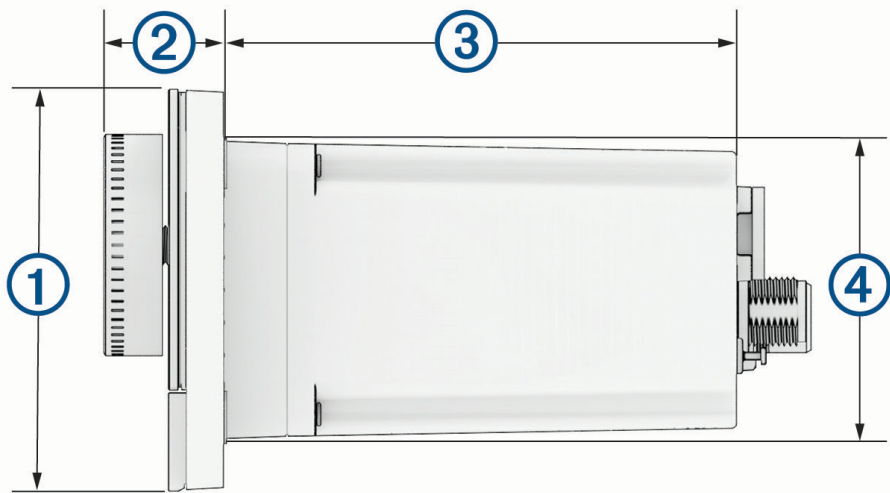
Continuous power output	17 W RMS x 4 at 1 kHz and 1% THD+N, at 4 ohms (CTA-2006)
Maximum dynamic power	22 W x 4 at 1 kHz and 10% THD+N, at 4 ohms (CTA-2006)
Total maximum dynamic power	88 W (CTA-2006)

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

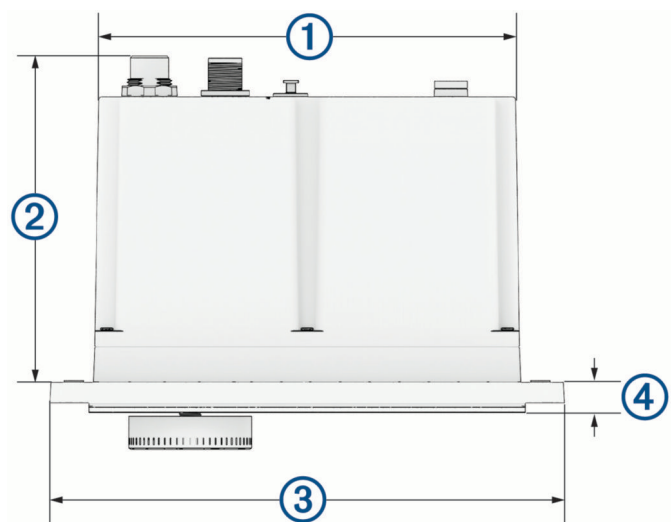
Stereo Dimension Drawings

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.)

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