



A Garmin Brand

HANDHELD MICROPHONE INSTALLATION INSTRUCTIONS

Important Safety Information

WARNING

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

See the *Important Safety and Product Information* guide in the stereo 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.

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.

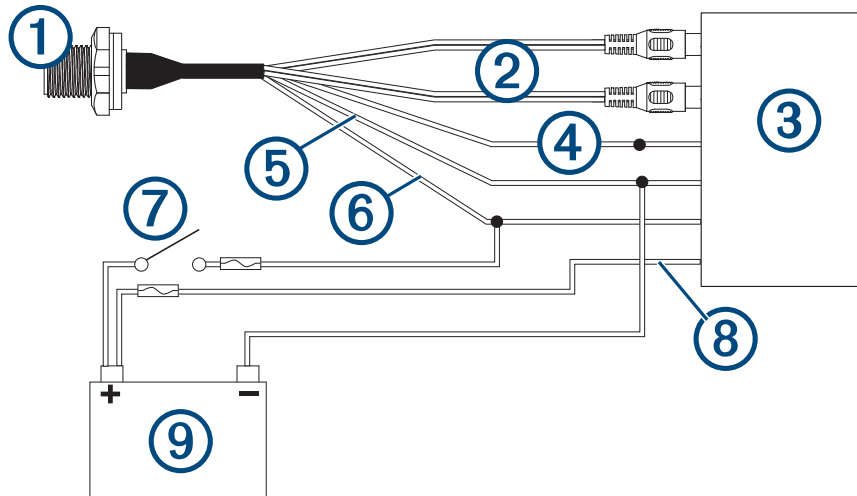
You must read all installation instructions before beginning the installation. If you experience difficulty during the installation, contact Fusion® Product Support.

Tools Needed

- Pencil
- Drill
- 16 mm ($\frac{5}{8}$ in.) drill bit
- 2.5 mm ($\frac{3}{32}$ in.) drill bit
- 16 mm ($\frac{5}{8}$ in.) socket or wrench
- Phillips screwdriver
- Marine sealant (optional)



Connection Diagram



①	Microphone connector	You can securely mount the microphone connector in an accessible location (<i>Installing the Connector Mount, page 4</i>).
②	RCA connectors	You must connect these to the AUX IN connector on the stereo wiring harness. If the stereo has more than one AUX IN connector, you must connect to the AUX1 connector.
③	Compatible stereo	
④	TELEMUTE	You must connect the bare wire from the microphone cable to the TELEMUTE wire on the stereo wiring harness if you want the microphone to change the source when activated (<i>Operating the Handheld Microphone, page 7</i>).
⑤	Negative (-) power connection	For the best results, you should connect the negative (-) wire from the microphone to the same negative (-) terminal as the stereo.
⑥	Positive (+) ignition power connection	You should connect the positive (+) wire from the handheld microphone to the ignition wire from the stereo to avoid draining the battery. You must route the combined positive (+) and ignition wires through a 3 A fuse before connecting to the ignition or manual switch.
⑦	Ignition or manual switch	The ignition or manual switch turns on the stereo and microphone.
⑧	Stereo power positive connection	You should not connect the positive (+) wire from the microphone to the constant power cable from the stereo to avoid draining the battery.
⑨	Power source	

Specifications

Microphone dimensions (H×W×D)	88 × 60 × 34 mm (3 ¹ / ₂ × 2 ³ / ₈ × 1 ¹¹ / ₃₂ in.)
Power and audio cable length	60 cm (23 ⁵ / ₈ in.)
Frequency response	From 100 Hz to 4 kHz
Microphone weight	250 g (8.75 oz)
Output (max.)	1 Vrms
THD+N (Vo = 1 Vrms, 1 kHz)	Less than 0.1% Vrms
Gain	+18 ± 0.5 dB
Load impedance (min.)	10k Ohm
Operating voltage	From 10.5 to 32 Vdc
Current (at 14.4 Vdc)	0.005 A
Fuse (not included)	3 A
Water rating	IEC 60529 IPX7 ¹

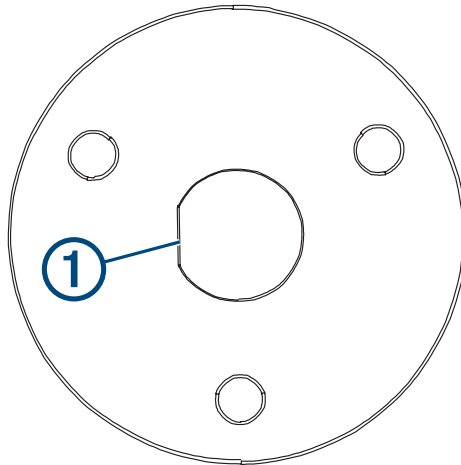
¹ For more information, go to garmin.com/waterrating.

Installing the Connector Mount

Before drilling a hole to mount the connector, you should verify that the microphone cable is long enough to reach the back of the stereo and the connector mounting location.

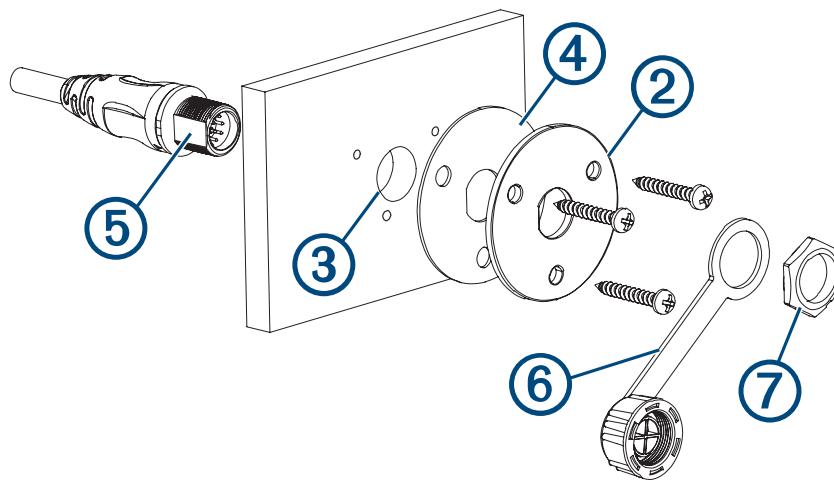
You can use the included hardware to mount the connector on the end of the microphone cable onto the dashboard or other mounting surface.

- 1 Orient the mounting plate with the flat edge of the central hole ① pointing to the left, and place it on the surface where you plan to mount the connector.



If you orient the plate with the flat surface pointing to any direction other than the left, the microphone cable will not point downward when you connect it.

- 2 Using the mounting plate ② as a template, trace the cable hole in the center of the mounting plate, and mark the screw locations.



- 3 Set the mounting plate aside.
Do not drill through the mounting plate.
- 4 Using a 16 mm ($\frac{5}{8}$ in.) drill bit, drill the center cable hole ③ in the mounting surface.
- 5 Using a 2.5 mm ($\frac{3}{32}$ in.) drill bit, drill the pilot holes.
- 6 Place the rubber gasket ④ between the mounting plate and the mounting surface.
- 7 Using the included screws, attach the mounting plate and gasket to the mounting surface.
- 8 Route the microphone cable to the back of the stereo and to the connector mount.

- 9 Feed the connector ⑤ through the back of the mounting surface.
- 10 Secure the connector and weather cap ⑥ to the mounting plate using the nut ⑦.

NOTICE

If you disconnect the microphone from the connector, you should secure the weather cap to avoid corrosion on the connector contacts.

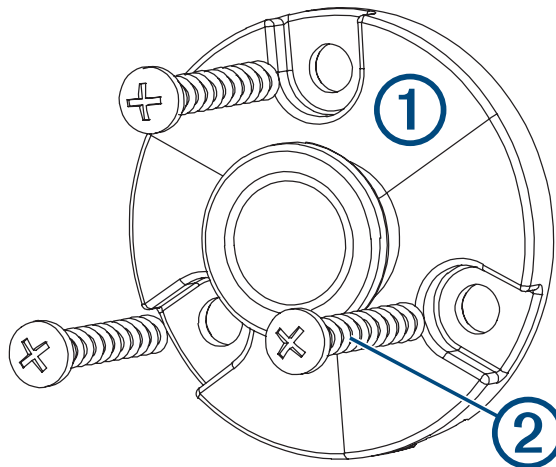
Mounting the Microphone Hanger

NOTICE

If you are mounting the bracket on fiberglass with screws, it is recommended to use a countersink bit to drill a clearance counterbore through only the top gel-coat layer. This will help to avoid cracking in the gel-coat layer when the screws are tightened.

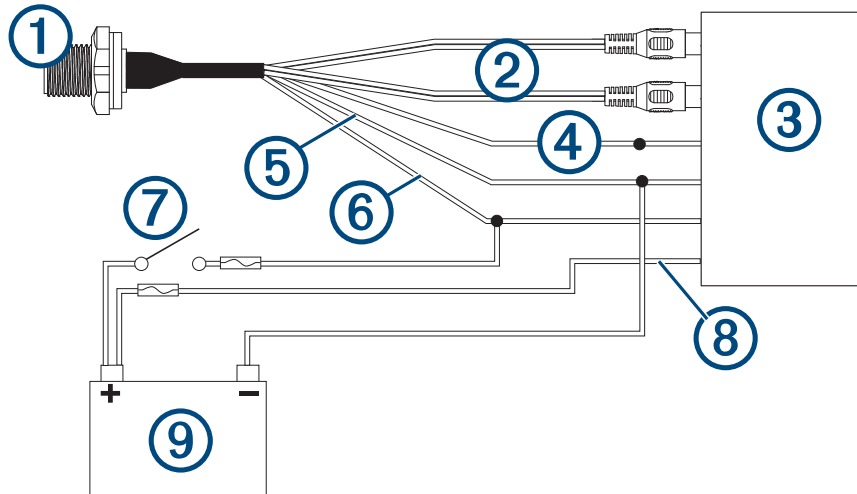
You can mount the microphone hanger in a convenient location near the radio.

- 1 Select a mounting location for the microphone within reach of the microphone cable.
- 2 Using the microphone hanger ① as a template, mark the pilot holes.



- 3 Drill the mounting holes using a 3 mm ($1/8$ in.) drill bit.
- 4 Secure the microphone hanger to the mounting surface using the included screws ②.

Connection Diagram



①	Microphone connector	You can securely mount the microphone connector in an accessible location (<i>Installing the Connector Mount, page 4</i>).
②	RCA connectors	You must connect these to the AUX IN connector on the stereo wiring harness. If the stereo has more than one AUX IN connector, you must connect to the AUX1 connector.
③	Compatible stereo	
④	TELEMUTE	You must connect the bare wire from the microphone cable to the TELEMUTE wire on the stereo wiring harness if you want the microphone to change the source when activated (<i>Operating the Handheld Microphone, page 7</i>).
⑤	Negative (-) power connection	For the best results, you should connect the negative (-) wire from the microphone to the same negative (-) terminal as the stereo.
⑥	Positive (+) ignition power connection	You should connect the positive (+) wire from the handheld microphone to the ignition wire from the stereo to avoid draining the battery. You must route the combined positive (+) and ignition wires through a 3 A fuse before connecting to the ignition or manual switch.
⑦	Ignition or manual switch	The ignition or manual switch turns on the stereo and microphone.
⑧	Stereo power positive connection	You should not connect the positive (+) wire from the microphone to the constant power cable from the stereo to avoid draining the battery.
⑨	Power source	

Operating the Handheld Microphone

You must configure the stereo before you can operate the handheld microphone ([Configuring the Fusion Stereo for the Handheld Microphone, page 7](#)).

You can use the handheld microphone from any source on the stereo. If the source is set to anything other than AUX1 when you hold the microphone button, the source switches to AUX1 automatically, and switches back to the original source after you release the button.

NOTE: You should stand behind the speakers that will be broadcasting from the microphone. If you are standing in front of the speakers, the microphone will pick up the broadcast and cause feedback.

- 1 Select any source on the stereo.

NOTE: If you set the stereo to the AUX1 source, there is no sound until you hold the microphone button and speak.

- 2 Hold the button on the side of the microphone and speak into it.

NOTE: If the stereo is playing music from a source, you should wait about 2 seconds before speaking to avoid cutting off the beginning of your announcement.

- 3 After you have finished speaking, release the button.

If the stereo was playing music from a source before you held the button, the stereo switches back to that source automatically.

Configuring the Fusion Stereo for the Handheld Microphone

- 1 On the stereo, select  > **SETTINGS** > **TELEMUTE**.

- 2 Select **AUX1** to fill the check box.

The stereo will now change to the AUX1 source when you hold the button on the side of the handheld microphone.

- 3 Select  > **SETTINGS** > **SOURCE** > **AUX1**.

- 4 Select **PARTYBUS ENABLED** to clear the checkbox.

When you clear the checkbox, the AUX1 source is no longer available for streaming over the Fusion PartyBus™ network. It is recommended to disable network streaming for the microphone source to avoid feedback caused by the slight delay present when streaming.

Adjusting the Gain of the Handheld Microphone

If the volume of the microphone broadcast is too loud or too quiet in relation to the other sources on the stereo, you can adjust the gain level for the AUX1 source.

- 1 On the stereo, change the source to **AUX1**.

- 2 Adjust the gain to raise or lower the microphone volume in 1 db steps.

A positive (+) gain setting increases the microphone volume, and a negative (-) gain setting decreases the microphone volume.

Specifications

Microphone dimensions (H×W×D)	88 × 60 × 34 mm (3 ¹ / ₂ × 2 ³ / ₈ × 1 ¹¹ / ₃₂ in.)
Power and audio cable length	60 cm (23 ⁵ / ₈ in.)
Frequency response	From 100 Hz to 4 kHz
Microphone weight	250 g (8.75 oz)
Output (max.)	1 Vrms
THD+N (Vo = 1 Vrms, 1 kHz)	Less than 0.1% Vrms
Gain	+18 ± 0.5 dB
Load impedance (min.)	10k Ohm
Operating voltage	From 10.5 to 32 Vdc
Current (at 14.4 Vdc)	0.005 A
Fuse (not included)	3 A
Water rating	IEC 60529 IPX7 ²

© 2020 Garmin Ltd. or its subsidiaries

Garmin®, the Garmin logo, Fusion®, and the Fusion logo, are trademarks of Garmin Ltd. or its subsidiaries, registered in the USA and other countries. These trademarks may not be used without the express permission of Garmin.

M/N: A13014

² For more information, go to garmin.com/waterrating.