

GARMIN®

GMI™ 40

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.

CAUTION

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

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

To avoid possible personal injury or damage to the device or vessel, before applying power to the device, make sure that it has been properly grounded, following the instructions in the guide.

NOTICE

For the best possible performance, the device must be installed according to these instructions.

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

Tools Needed

- #2 Phillips screwdriver
- Drill
- Drill bits
 - 2.8 mm ($\frac{3}{32}$ in.) drill bit for the mounting screws
 - 67 mm ($2\frac{5}{8}$ in.) hole saw for cutting the device opening
 - 13 mm ($\frac{1}{2}$ in.) drill bit and a rotary cutting tool or jigsaw if you are not using a hole saw
- Marine sealant (recommended)

Mounting Considerations

NOTICE

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

The mounting surface must be flat to avoid damaging the device when it is mounted.

When selecting a mounting location, observe these considerations.

- The mounting location should be at or below eye level to provide optimal viewing as you operate your vessel.
- The mounting surface must be strong enough to support the weight of the device and protect it from excessive vibration or shock.
- To avoid interference with a magnetic compass, the device should not be installed closer to a compass than the compass-safe distance value listed in the product specifications.
- The area behind the mounting surface must allow room for the routing and connection of the cables.

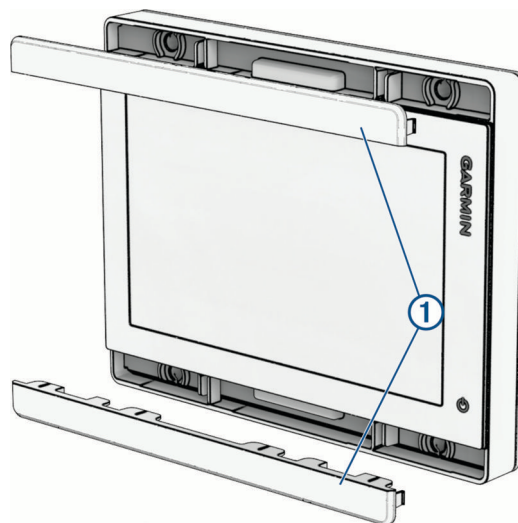
Mounting the Device

NOTICE

If you are mounting the device in fiberglass, when drilling the pilot holes, 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.

The included template and hardware can be used to flush mount the device in your dashboard.

- 1 Trim the flush-mount template and ensure it fits in the location where you plan to mount the marine instrument.
The flush-mount template is included in the product box.
- 2 Secure the template to the selected location.
- 3 If you plan to cut the hole using a rotary tool or jigsaw instead of a 67 mm (2 ⁵/₈ in.) hole saw, use a 13 mm (1/2 in.) drill bit to drill a pilot hole to begin cutting the mounting surface.
- 4 Select an option:
 - If you plan to cut the hole using a rotary tool or jigsaw instead of a 67 mm (2 ⁵/₈ in.) hole saw, insert the blade into the hole you drilled in the previous step and cut the mounting surface along the inside of the bold line indicated on the mounting template.
 - If you plan to cut the hole using a 67 mm (2 ⁵/₈ in.), place the guide bit on the hole saw on the center of the cross on the mounting template and cut the hole..
- 5 If necessary, use a file and sandpaper to refine the size of the hole.
- 6 Place the marine instrument into the cutout to confirm that the mounting holes on the template are in the correct locations.
- 7 If the mounting holes are not correct, mark the correct locations of the mounting holes.
- 8 Remove the marine instrument from the cutout.
- 9 Drill the 2.8 mm (3/32 in.) pilot holes.
If you are mounting the marine instrument in fiberglass, use a countersink bit as advised in the notice.
- 10 Remove the remainder of the template.
- 11 Place the included gasket on the back of the device.
- 12 If you will not have access to the back of the device after you mount it, connect all necessary cables to the device before placing it into the cutout.
To prevent corrosion of the metal contacts, cover unused connectors with the attached weather caps.
- 13 Apply marine sealant around the gasket to prevent leakage behind the dashboard (optional).
- 14 Place the marine instrument into the cutout.
- 15 Securely fasten the marine instrument to the mounting surface using the supplied screws.
- 16 Snap the screw covers ① into place.



Connection Considerations

This device connects to power and to data sources through a NMEA 2000® network.

You can connect this device to Garmin BlueNet™ network to access data from Garmin® chartplotters and other connected network devices.

NMEA 2000® Connection Considerations

NOTICE

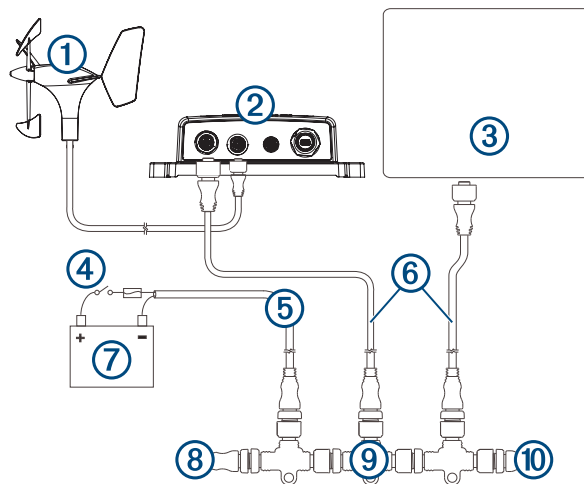
If you are connecting to an **existing** NMEA 2000 network, identify the NMEA 2000 power cable. Only one NMEA 2000 power cable is required for the NMEA 2000 network to operate properly.

A NMEA 2000 Power Isolator (010-11580-00) should be used in installations where the existing NMEA 2000 network manufacturer is unknown.

If you are installing a NMEA 2000 power cable, you must connect it to the boat ignition switch or through another in-line switch. NMEA 2000 devices will drain your battery if the NMEA 2000 power cable is connected to the battery directly.

The marine instrument connects to a NMEA 2000 network on your boat. The NMEA 2000 network provides power to the marine instrument and data from NMEA 2000 devices such as a wind sensor. The included NMEA 2000 cables and connectors allow you to either connect the device to your existing NMEA 2000 network or create a basic NMEA 2000 network if needed.

If you are unfamiliar with NMEA 2000, you should read the *Technical Reference for NMEA 2000 Products* at garmin.com/manuals/nmea_2000.



①	Wind transducer
②	GND™ 10 black box bridge
③	GMI™ 40 marine instrument
④	Ignition or in-line switch
⑤	NMEA 2000 power cable
⑥	NMEA 2000 drop cable
⑦	Power source
⑧	NMEA 2000 terminator or backbone cable
⑨	NMEA 2000 T-connector
⑩	NMEA 2000 terminator or backbone cable

Garmin BlueNet™ and Garmin® Marine Network Connection Considerations

This device can connect directly to a Garmin BlueNet network, or it can connect to a legacy Garmin Marine Network device using an adapter cable. For more information about Garmin BlueNet technology and how it compares to the legacy Garmin Marine Network, read the *Technical Reference for Garmin BlueNet Network Technology* on the Garmin website at: <http://garmin.com/manuals/bluenet>.

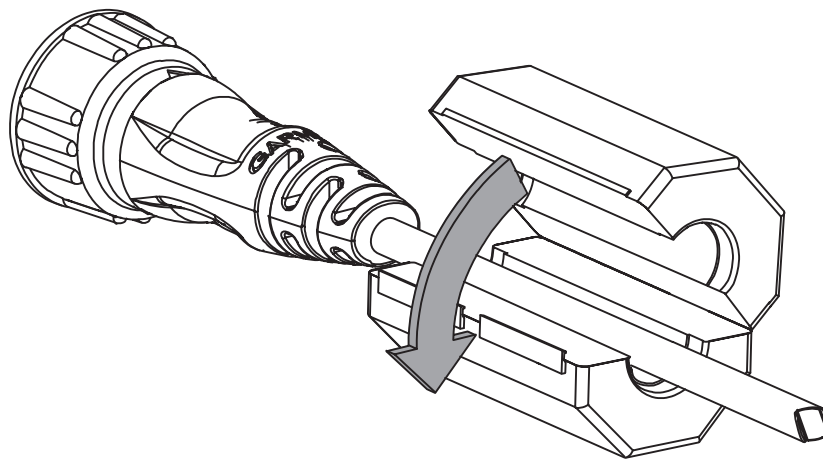
Devices connected to a Garmin BlueNet network or to a Garmin Marine Network can share data such as radar, sonar, and detailed mapping. When connecting this device to your network, follow the directions for your network type.

Installing Ferrite Beads on the Garmin BlueNet™ Cable

NOTICE

To comply with FCC regulations, and with similar regulations of other countries if applicable, and to reduce electromagnetic interference (EMI) or "noise," you should install a ferrite bead on each end of the Garmin BlueNet cable.

- 1 Position an included ferrite bead on the Garmin BlueNet cable, near the connector.
- 2 Snap the ferrite bead securely around the cable.



- 3 Repeat this procedure on the other end of the Garmin BlueNet cable.

Specifications

Specification	Measurement
Dimensions without sun cover (H×W×D)	91 x 115 x 30 mm (3.58 x 4.53 x 1.18 in.)
Dimensions with sun cover (H×W×D)	101 x 121 x 33 mm (3.98 x 4.76 x 1.30 in.)
Weight without sun cover	206 g (7.27 oz.)
Weight with sun cover	247 g (8.71 oz.)
Temperature range	From 5° to 131°F (from -15° to 55°C)
Compass-safe distance	15 cm (6 in.)
Wireless Frequencies	2400 - 2483.5 MHz < 20dBm
Material	Case: fully-gasketed polycarbonate Lens: glass with an anti-glare finish
Water Resistance	IEC 60529 IPX7 ¹
Power usage	4.95 W max
Unit max. voltage	32 Vdc
NMEA 2000® input voltage	From 9 to 16 Vdc
NMEA 2000 load equivalency number (LEN)	11 (550 mA at 9 Vdc)

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.

中国微功率无线电发射设备合规

- 一) 工作于 2400–2483.5 MHz 频段的 ANT 技术无线遥控设备，使用频率：2400–2483.5 MHz, 发射功率限值：10 mW(e.i.r.p), 频率容限：75 kHz
- 二) 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率(包括额外加装射频功率放大器)，不得擅自更改发射天线；
- 三) 不得对其他合法的无线电台(站)产生有害干扰，也不得提出免受有害干扰保护；
- 四) 应当承受辐射射频能量的工业、科学及医疗(ISM)应用设备的干扰或其他合法的无线电台(站)干扰；
- 五) 如对其他合法的无线电台(站)产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；
- 六) 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站(含测控、测距、接收、导航站)等军民用无线电台(站)、机场等的电磁环境保护 区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定；
- 七) 禁止在以机场跑道中心点为圆心、半径 5000 米的区域内使用各类模型遥控器；
- 八) 微功率设备使用时温度 -15-55℃ 直流电压 10-35 Vdc 。

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	邻苯二甲酸丁苄酯	邻苯二甲酸二丁酯	邻苯二甲酸二异丁酯
印刷电路板组件	✗	○	○	○	○	○	○	○	○	○
屏幕/背光	✗	○	○	○	○	○	○	○	○	○
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

NBTC SDoC



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุคมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต วิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498



nabn. | โทรคมนาคม
กำกับดูแลเพื่อประชาชน
Call Center 1200 (InswS)

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A04812
仪表显示器
儀錶顯示器