GARMIN®

GPSMAP® 15X3
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.

When connecting the power cable, do not remove the in-line fuse holder. To prevent the possibility of personal injury or product damage caused by fire or overheating, the appropriate fuse must be in place as indicated in the product specifications. Connecting the power cable without the appropriate fuse in place voids the product warranty.

Failure to install this device according to these instructions could result in personal injury, damage to the vessel or device, or poor product performance.

⚠ 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.

To avoid possible personal injury or damage to this device and vessel, only install this device when the vessel is on land, or when properly secured and docked in calm water conditions.

NOTICE

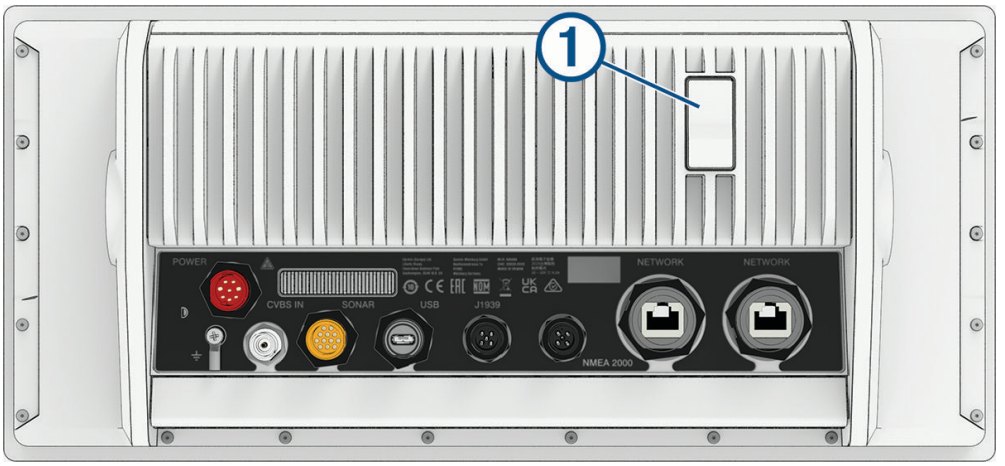
When drilling or cutting, always check what is on the opposite side of the surface to avoid damaging the vessel.

Read all installation instructions before proceeding with the installation. If you experience difficulty during the installation, contact Garmin® Product Support.

Tools Needed

- Drill and 14 mm ($^{9}/_{16}$ in.) bit (to prepare the surface for cutting)
- Jigsaw or rotary tool
- File and sandpaper
- Marine sealant (recommended)

Connector View



1	2 microSD® memory card slots, 32 GB max. card size, formatted to FAT32 or exFAT with speed class 10 or higher.
POWER	Power and NMEA® 0183 network
⏚	Ground screw (optional)
CVBS IN	Composite video in
SONAR	12-pin transducer
USB	Micro USB for compatible Garmin card reader
J1939	Engine or J1939 network
NMEA 2000	NMEA 2000® network
NETWORK	Garmin Marine Network

Software Update

You may need to update the chartplotter software after installation. For the instructions on how to update the software, see the owner's manual at garmin.com/manuals/gpsmap15x3.

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.

When flush-mounting this device in a dashboard or other flat surface, it uses brackets to hold the device in the opening from the back of the surface using tension. When selecting a location, before cutting the opening, you must make sure that you have access to the back of the mounting surface so you can install and secure the brackets on the device. You should also make sure that there is sufficient clearance for the brackets and connected cables behind the mounting surface. The needed clearance varies, depending on the thickness of the mounting surface, the type of brackets used, and the cables you plan to connect.

When flush mounting the device, the curvature of the mounting surface must not exceed 0.5 mm ($^{1}/_{64}$ in.) Flush-mounting the device on a surface with a curvature that exceeds this allowance may damage the device.

NOTE: This device can be flush-mounted using the hardware included in the product box. If you would prefer to bail mount the device instead, you can purchase an optional bail-mount accessory from your Garmin dealer or at garmin.com.

When selecting a mounting location, you should observe these considerations.

- The location must allow access to the back of the surface and provide sufficient clearance when mounting the device.
- When flush-mounting the device, the surface should be relatively flat, with the curvature not exceeding 0.5 mm ($^{1}/_{64}$ in.).
- The location should provide optimal viewing as you operate your boat.
- The location should allow for easy access to all device interfaces, such as the keypad, touchscreen, and card reader, if applicable.
- The location 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 location must allow room for the routing and connection of all cables.
- When flush mounting the device, the location must not be a flat, horizontal surface. The location should be in a vertical angle.
- The location and viewing angle should be tested before you install the device. High viewing angles from above and below the display may result in a poor image.

Flush Mounting the Device

NOTICE

You must have access to the back of the mounting surface to install the hardware needed to flush mount this device. If you are not able to access the back of the mounting surface, you should not attempt to flush mount this device because you may cut a hole in your dashboard and then be unable to complete the installation, causing damage to the vessel.

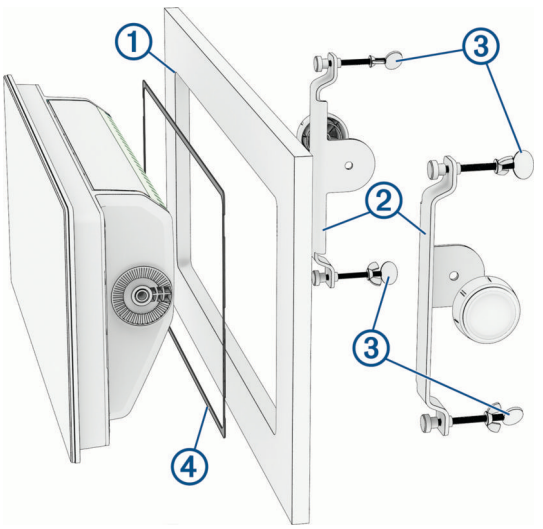
Be careful when cutting the hole to flush mount the device. There is only a small amount of clearance between the edge of the hole and the edge of the bezel that secures the device to the mounting surface. Cutting the hole too large could compromise the stability of the device after it is mounted.

If you will not have easy access to the microSD memory card slots on the back of the device after installation, you should insert a microSD memory card in one or both of the card slots prior to installation, or install an optional Garmin card reader so users can easily insert and remove cards after installation.

You can use the included template and brackets to mount the device in your dashboard.

The included brackets are designed to secure the device in a mounting surface less than or equal to a thickness of 25 mm (1 in.). If the mounting surface is thicker than 25 mm (1 in.), you can purchase brackets to accommodate a surface with a thickness up to 50 mm (2 in.) from your Garmin dealer or from garmin.com

1. Trim the template, and make sure it fits in the location where you want to mount the device.
2. Secure the template to the mounting location.
3. Using a 14 mm ($^{9}/_{16}$ in.) drill bit, drill one or more of the holes inside the corners of the solid line on the template to prepare the mounting surface for cutting.
4. Using a jigsaw or a rotary tool, cut the mounting surface along the inside line on the template.
5. Remove the template from the mounting surface.
6. Place the device in the cutout ① to test the fit.



7. If necessary, use a file and sandpaper to refine the size of the cutout.
8. After the device fits correctly in the cutout, place the brackets ② against the sides of the device, and adjust the screws ③ closer to the back of the mounting surface to make the final tightening easier (optional).
9. Install the foam gasket ④ on the back of the device.

   The pieces of the foam gasket have adhesive on the back. Make sure you remove the protective liner before installing them on the device.
10. If you will not have easy access to the back of the device after you mount it, you can connect all necessary cables and install microSD cards in the back of the device before placing it into the cutout (optional).

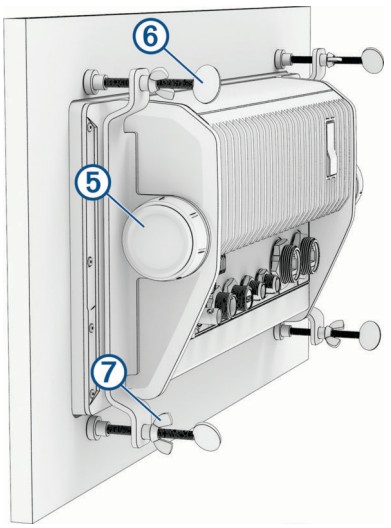
NOTICE

To prevent corrosion of the metal contacts, cover unused connectors with the attached weather caps.

11 Apply a bead of marine sealant on the foam gasket along the inside of the bezel and insert the device into the cutout.

TIP: To keep the device from falling out of the mounting surface while you install the brackets on the back, you can use masking tape or the assistance of another person to hold the device in place.

12 Place one of the brackets against the side of the device and secure it using one of the included knobs ⑤.



13 Secure the other bracket to the other side of the device using the other knob.

14 Tighten one of the thumbscrews ⑥ until it contacts the back of the mounting surface until it stops.

Do not fully tighten the screw at this time. You will fully tighten them all later.

15 Tighten the other three screws until the device is held in place on the mounting surface.

16 Look at the device from the front and make sure it is straight and positioned as you intend, making any adjustments as needed.

17 Tighten all four of the screws to secure the device snugly to the mounting surface, taking care to not overtighten them.

NOTICE

Use only fingers when tightening the thumbscrews. Using a tool other than your fingers and overtightening the thumbscrews may damage the mounting surface, the device, or both.

18 Tighten the four wingnuts ⑦ on each thumbscrew to lock the thumbscrews at their present depths.

NOTE: The wingnuts do not provide tension to hold the device to the surface. They are designed to keep the thumbscrews from loosening over time.

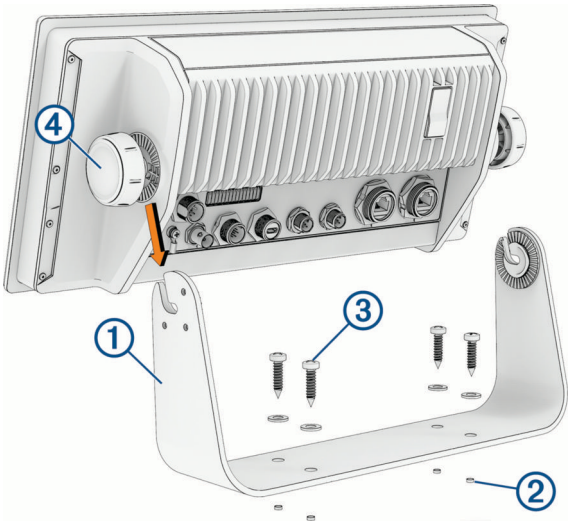
Bail Mounting the Device

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 use a bail mount bracket (sold separately) to bail mount the device on a flat surface.

1 Using the bail-mount bracket ① as a template, mark the pilot holes.



2 Drill the pilot holes ②.

3 Use either the mounting screws included with the bracket ③ or your own mounting hardware to secure the bail-mount bracket to the mounting surface.

4 Install the bail-mount knobs ④ on the sides of the device.

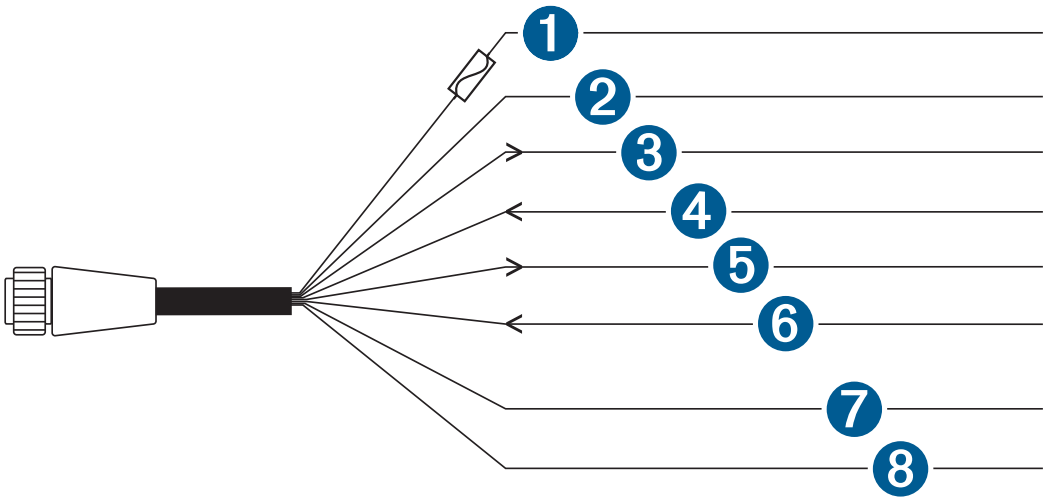
5 Place the device in the bail-mount bracket and tighten the bail-mount knobs.

Connection Considerations

After connecting the cables to the device, tighten the locking rings to secure each cable.

Power/NMEA 0183 Cable

- The wiring harness connects the device to power, NMEA 0183 devices, and a lamp or a horn for visible or audible alerts.
- If it is necessary to extend the power and ground wires, you must use a wire gauge appropriate for the length of the extension (*Power Wire Extensions*, page 8).
- If it is necessary to extend the NMEA 0183 or alarm wires, you must use 22 AWG (.33 mm²) wire.
- This cable provides one differential NMEA 0183 input and output port.



Item	Wire Color	Wire Function
1	Red	Power
2	Black	Ground (power and NMEA 0183)
3	Blue	NMEA 0183 TxA (Out +)
5	Gray	NMEA 0183 TxB (Out -)
4	Brown	NMEA 0183 RxA (In +)
6	Violet	NMEA 0183 RxB (In -)
7	Orange	Accessory on
8	Yellow	Alarm low

Connecting the Wiring Harness to Power

⚠ WARNING

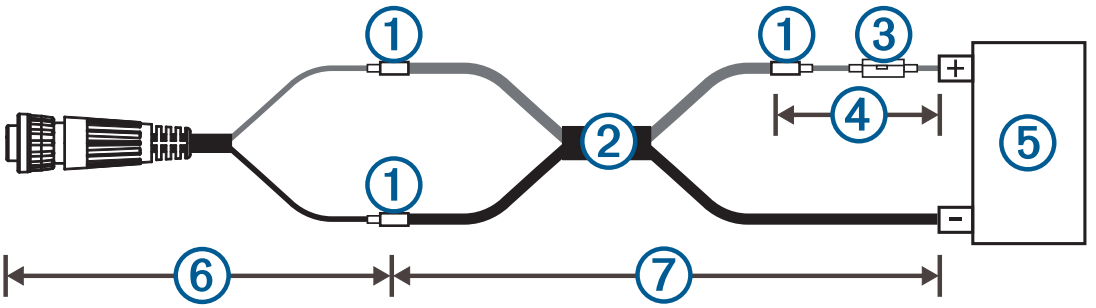
When connecting the power cable, do not remove the in-line fuse holder. To prevent the possibility of personal injury or product damage caused by fire or overheating, the appropriate fuse must be in place as indicated in the product specifications. Connecting the power cable without the appropriate fuse in place voids the product warranty.

1. Route the wiring harness to the power source and to the device.
2. Connect the red wire to the positive (+) battery terminal, and connect the black wire to the negative (-) battery terminal.
3. If necessary, install the locking ring and O-ring on the end of the wiring harness.
4. Insert the cable into the POWER connector on the back of the device, pushing firmly.
5. Turn the locking ring clockwise to attach the cable to the device.

Power Wire Extensions

If necessary, the power wires can be extended using the appropriate wire gauge for the length of the extension.

NOTE: The power wires on this cable are red (+) and black (-). The other wires on this cable are used for other, optional connections and are not shown in this diagram.



1	Splice
2	• Up to 4.6 m (15 ft.): 10 AWG (5.26 mm^2) extension wire • Up to 7 m (23 ft.): 8 AWG (8.36 mm^2) extension wire • Up to 11 m (36 ft.): 6 AWG (13.29 mm^2) extension wire
3	Fuse (6 A, 125 V fast-acting) ***NOTICE*** The fuse should be installed as close to the battery as possible. When extending the power wires, remove the inline fuse and relocate it near the battery connection.
4	20.3 cm (8 in.)
5	Battery
6	20.3 cm (8 in.)
7	11 m (36 ft.) maximum extension

Additional Grounding Consideration

This device should not need additional chassis grounding in most installation situations. If you experience interference, the grounding screw on the housing can be used to connect the device to the water ground of the boat to help avoid the interference.

Garmin Marine Network Considerations

NOTICE

A Garmin Marine Network PoE Isolation Coupler (010-10580-10) must be used when connecting any third-party device, such as a FLIR® camera, to a Garmin Marine Network. Connecting a Power over Ethernet (PoE) device directly to a Garmin Marine Network chartplotter damages the Garmin chartplotter and may damage the PoE device. Connecting any third-party device directly to a Garmin Marine Network chartplotter will cause abnormal behavior on the Garmin devices, including the devices not properly turning off or the software becoming inoperable.

This device can connect to additional Garmin Marine Network devices to share data such as radar, sonar, and detailed mapping. When connecting Garmin Marine Network devices to this device, observe these considerations.

- All devices connected to the Garmin Marine Network must be connected to the same ground. If multiple power sources are used for Garmin Marine Network devices, you must tie all ground connections from all power supplies together using a low resistance connection or tie them to a common ground bus bar, if available.
- A Garmin Marine Network cable must be used for all Garmin Marine Network connections.
  - Third-party CAT5 cable and RJ45 connectors must not be used for Garmin Marine Network connections.
  - Additional Garmin Marine Network cables and connectors are available from your Garmin dealer.
- The NETWORK ports on the device each act as a network switch. Any compatible device can be connected to any NETWORK port to share data with all devices on the boat connected by a Garmin Marine Network cable.

NMEA 2000 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.

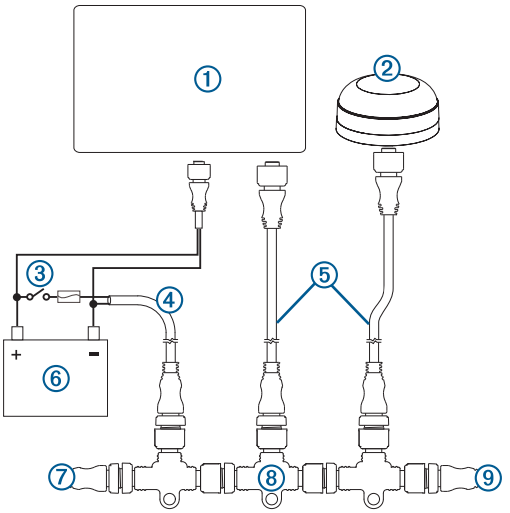
If you are installing a NMEA 2000 power cable, you must connect it to the boat ignition switch or through another in-line switch. NMEA 2000 devices will drain your battery if the NMEA 2000 power cable is connected to the battery directly.

This device can connect to a NMEA 2000 network on your boat to share data from NMEA 2000 compatible devices such as a GPS antenna or a VHF radio. The included NMEA 2000 cables and connectors allow you to connect the device to your existing NMEA 2000 network. If you do not have an existing NMEA 2000 network you can create a basic one using cables from Garmin.

This device is not powered through the NMEA 2000 network. You must connect the device to a power source (*Connecting the Wiring Harness to Power*, page 8).

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

The port labeled NMEA 2000 is used to connect the device to a standard NMEA 2000 network.



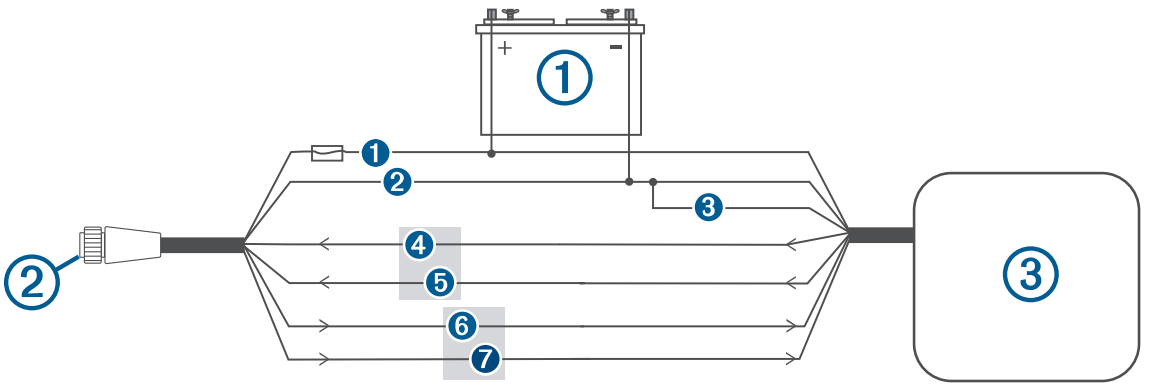
Item	Description
①	NMEA 2000 compatible Garmin device
②	GPS antenna
③	Ignition or in-line switch
④	NMEA 2000 power cable
⑤	NMEA 2000 drop cable
⑥	12 Vdc power source
⑦	NMEA 2000 terminator or backbone cable
⑧	NMEA 2000 T-connector
⑨	NMEA 2000 terminator or backbone cable

NMEA 0183 Connection Considerations

- The chartplotter provides one Tx (transmit) port and one Rx (receive) port.
- Each port has 2 wires, labeled A and B according to the NMEA 0183 convention. The corresponding A and B wires of each internal port should be connected to the A (+) and B (-) wires of the NMEA 0183 device.
- You can connect one NMEA 0183 device to the Rx port to input data to this chartplotter, and you can connect up to three NMEA 0183 devices in parallel to the Tx port to receive data output by this chartplotter.
- See the NMEA 0183 device installation instructions to identify the transmit (Tx) and receive (Rx) wires.
- You must use 22 AWG (.33 mm²), shielded, twisted-pair wiring for extended runs of wire. Solder all connections and seal them with heat-shrink tubing.
- Unless instructed for specific installation types, you should not connect the NMEA 0183 data wires from this device to power ground.
- The power cable from the chartplotter and the NMEA 0183 devices must be connected to a common power ground.
- The internal NMEA 0183 ports and communication protocols are configured on the chartplotter. See the NMEA 0183 section of the chartplotter owner's manual for more information.
- See the chartplotter owner's manual for a list of the approved NMEA 0183 sentences that the chartplotter supports.

NMEA 0183 Device Connections

This diagram illustrates two-way connections for both sending and receiving data. You can also use this diagram for one-way communication. To receive information from a NMEA 0183 device, refer to items ❶, ❷, ❸, ❹, and ❺ when connecting the Garmin device. To transmit information to a NMEA 0183 device, refer to items ❶, ❷, ❸, ❻, and ❼ when connecting the Garmin device.



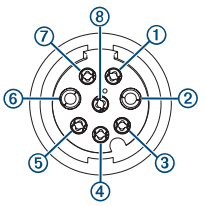
Item	Description
①	Power source
②	Power/NMEA 0183 cable
③	NMEA 0183 device

Item	Garmin Wire Function	Garmin Wire Color	NMEA 0183 Device Wire Function
1	Power	Red	Power
2	Power ground	Black	Power ground
3	Data ground	Black	Data ground
4	Rx/A (In +)	Brown	Tx/A (Out +)
5	Rx/B (In -)	Violet	Tx/B (Out -)
6	Tx/A (Out +)	Blue	Rx/A (In +)
7	Tx/B (Out -)	Gray	Rx/B (In -)

If the NMEA 0183 device has only one input (receive, Rx) wire (no A, B, +, or -), you must leave the gray wire unconnected.

If the NMEA 0183 device has only one output (transmit, Tx) wire (no A, B, +, or -), you must connect the violet wire to ground.

NMEA 0183 and Power Cable Pinout

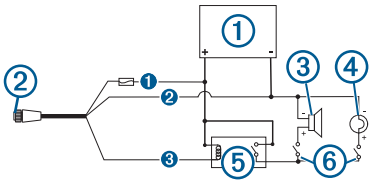


Pin Number	Wire Function	Wire Color
3	NMEA 0183 Tx/A (Out +)	Blue
4	NMEA 0183 Rx/A (In +)	Brown
1	NMEA 0183 Tx/B (Out -)	Gray
7	NMEA 0183 Rx/B (In -)	Violet
5	Alarm	Yellow
8	Accessory on	Orange
2	Ground (shield)	Black
6	VIN	Red

Lamp and Horn Connections

The device can be used with a lamp, a horn, or both, to sound or flash an alert when the chartplotter displays a message. This is optional, and the alarm wire is not necessary for the device to function normally. When connecting the device to a lamp or horn, observe these considerations.

- The alarm circuit switches to a low-voltage state when the alarm sounds.
- The maximum current is 100 mA, and a relay is needed to limit the current from the chartplotter to 100 mA.
- To manually toggle visual and audible alerts, you can install single-pole, single-throw switches.



Item	Description
1	Power source
2	Power cable
3	Horn
4	Lamp
5	Relay (100 mA coil current)
6	Toggle switches to enable and disable lamp or horn alerts

Item	Wire Color	Wire Function
1	Red	Power
2	Black	Ground
3	Yellow	Alarm

J1939 Engine Network Connection Considerations

NOTICE

You must use a Garmin GPSMAP J1939 accessory cable when connecting the chartplotter to the J1939 engine network to prevent corrosion due to moisture. Using a different cable voids your warranty.

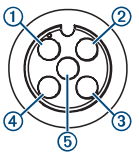
If you have an existing engine network on your boat, it should already be connected to power. Do not add any additional power supply.

This chartplotter can connect to an engine network on your boat to read data from compatible devices such as certain engines. The engine network follows a standard and uses proprietary messages.

You should consult the manufacturer of your engine or engine network when connecting the chartplotter. Some manufacturers may have requirements you must follow when connecting to avoid unexpected behavior.

The port labeled J1939 is used to connect the device to the existing engine network. You must route the cable within 6 m (20 ft.) of the engine network backbone.

The Garmin GPSMAP J1939 accessory cable requires connection to a power source and proper termination. For more information on connecting to your engine network, see the manufacturer's engine documentation.



Pin	Wire Color	Description
①	Bare	Shield
②	Red	Power, positive
③	Black	Power, negative
④	White	CAN High
⑤	Blue	CAN Low

Composite Video Considerations

This chartplotter allows video input from composite video sources using the port labeled CVBS IN. When connecting composite video, you should observe these considerations.

- The CVBS IN port uses a BNC connector. You can use a BNC to RCA adapter to connect a composite-video source with RCA connectors to the CVBS IN port.
- Video is shared across the Garmin Marine Network, but it is not shared across the NMEA 2000 network.

Specifications

Dimensions (W × H × D)	388.9 × 178.5 × 82.9 mm (15 5/16 × 7 × 3 1/4 in.)
Dimensions with cover on bail mount (W × H × D)	397.1 × 182.5 × 113.7 mm (15 5/8 × 7 3/16 × 4 7/16 in.)
Display size (W × H)	345.2 × 194.6 mm (13 5/8 × 7 11/16 in.) 369.1 mm (15 9/16 in.) diagonal
Display resolution	1920 × 720 pixels (IPS)
Weight	3.26 kg (7.2 lb.)
Compass-safe distance	50 cm (19.7 in.)
Max. power usage at 10 Vdc	56.93 W
Typical current draw at 12 Vdc	2.44 A
Max. current draw at 12 Vdc	4.31 A
Temperature range	From -15° to 55°C (from 5° to 131°F)
Material	Polycarbonate plastic and die-cast aluminum
Water rating	IEC 60529 IPX7 [1]
Input voltage	From 10 to 32 Vdc
Fuse	6 A, 125 V fast-acting
NMEA 2000 LEN @ 9 Vdc	2
NMEA 2000 draw	75 mA max.
USB connector	Micro-USB for compatible Garmin card reader[2]
Wireless frequency	2.4 GHz @ 18.4 dBm maximum
Memory card	2 microSD memory card slots, 32 GB max. card size, formatted to FAT32 or exFAT with speed class 10 or higher.

[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.
[2] Only compatible Garmin card readers recommended. Third-party card readers are not guaranteed to be fully compatible.

NMEA 2000 PGN Information

Transmit and Receive

PGN	Description
059392	ISO acknowledgment
059904	ISO request
060160	ISO transport protocol: Data transfer
060416	ISO transport protocol: Connection management
060928	ISO address claimed
126208	Request group function
126993	Heartbeat
126996	Product information
126998	Configuration information
127237	Heading/track control
127245	Rudder
127250	Vessel heading
127258	Magnetic variance
127488	Engine parameters: Rapid update
127489	Engine parameters: Dynamic
127490	Electric drive status: Dynamic
127491	Electric energy storage status: Dynamic
127493	Transmission parameters: Dynamic
127494	Electric drive information
127495	Electric energy storage information
127505	Fluid level
127508	Battery status
128002	Electric drive status: Rapid update
128003	Electric energy storage status: Rapid update
128259	Speed: Water referenced
128267	Water depth
129025	Position: Rapid update
129026	COG and SOG: Rapid update
129029	GNSS position data
129283	Cross track error
129284	Navigation data

PGN	Description
129285	Navigation - route/waypoint information
129539	GNSS DOPs
129540	GNSS satellites in view
130060	Label
130306	Wind data
130310	Environmental parameters (obsolete)
130312	Temperature (obsolete)

Transmit

PGN	Description
126464	Transmit and receive PGN list group function
126984	Alert response
127258	Magnetic variation
127497	Trip parameters: Engine
127502	Switch bank control (DEPRECATED)

Receive

PGN	Description
065030	Generator average basic AC quantities (GAAC)
065240	Commanded address
126983	Alert
126985	Alert text
126987	Alert threshold
126988	Alert value
126992	System time
127233	Man overboard
127237	Heading/track control
127245	Rudder
127251	Rate of turn
127252	Heave
127257	Attitude
127498	Engine parameters: Static
127501	Switch bank status
127503	AC input status (obsolete)

PGN	Description
127504	AC output status (obsolete)
127506	DC detailed status
127507	Charger status
127509	Inverter status
128000	Nautical leeway angle
128275	Distance log
128780	Linear actuator
129038	AIS class A position report
129039	AIS class B position report
129040	AIS class B extended position report
129041	AIS Aids to Navigation (AtoN) report
129044	Datum
129285	Navigation: Route, waypoint information
129794	AIS class A static and voyage related data
129798	AIS SAR aircraft position report
129799	Radio frequency/mode/power
129802	AIS safety-related broadcast message
129808	DSC call Information
129809	AIS class B "CS" static data report, part A
129810	AIS class B "CS" static data report, part B
130067	Route and waypoint service: Route, waypoint name and position
130311	Environmental parameters (obsolete)
130313	Humidity
130314	Actual pressure
130316	Temperature: Extended range
130569	Entertainment: Current file and status
130570	Entertainment: Library data file
130571	Entertainment: Library data group
130573	Entertainment: Supported source data
130574	Entertainment: Supported zone data
130576	Trim tab status
130577	Direction data

NMEA 0183 Information

Transmit

Sentence	Description
GPAPB	APB: Heading or track controller (autopilot) sentence "B"
GPBOD	BOD: Bearing (origin to destination)
GPBWC	BWC: Bearing and distance to waypoint
GPGGA	GGA: Global positioning system fix data
GPGLL	GLL: Geographic position (latitude and longitude)
GPGSA	GSA: GNSS DOP and active satellites
GPGSV	GSV: GNSS satellites in view
GPRMB	RMB: Recommended minimum navigation information
GPRMC	RMC: Recommended minimum specific GNSS data
GPRTE	RTE: Routes
GPVTG	VTG: Course over ground and ground speed
GPWPL	WPL: Waypoint location
GPXTE	XTE: Cross track error
PGRME	E: Estimated error
PGRMM	M: Map datum
PGRMZ	Z: Altitude
SDDBT	DBT: Depth below transducer
SDDPT	DPT: Depth
SDMTW	MTW: Water temperature
SDVHW	VHW: Water speed and heading
TLB	Target label
TLL	Target latitude and longitude
TTD	Tracked target data
ZDA	Time and date

Receive

Sentence	Description
DPT	Depth
DBT	Depth below transducer
MTW	Water temperature
VHW	Water speed and heading
WPL	Waypoint location
DSC	Digital selective calling information
DSE	Expanded digital selective calling
HDG	Heading, deviation, and variation
HDM	Heading, magnetic
MWD	Wind direction and speed
MDA	Meteorological composite
MWV	Wind speed and angle
RTE	Routes
VDM	AIS VHF data-link message

You can purchase complete information about National Marine Electronics Association (NMEA) format and sentences from www.nmea.org.

J1939 Information

The chartplotter can receive J1939 sentences. The chartplotter cannot transmit over the J1939 network.

Description	PGN	SPN
Engine percent load at current speed	61443	92
Engine speed	61444	190
Engine manifold exhaust gas temperature - right manifold	65031	2433
Engine manifold exhaust gas temperature - left manifold	65031	2434
Engine auxiliary coolant	65172	
Active diagnostic trouble codes	65226	
Vehicle distance	65248	
Water in fuel indicator	65279	
Engine wait to start lamp	65252	1081
Engine over speed test	65252	2812
Engine air shutoff command status	65252	2813
Engine alarm output command status	65252	2814
Engine total hours of operation	65253	247
Navigation-based vehicle speed	65256	517
Engine fuel temperature 1	65262	174
Engine oil temperature 1	65262	175
Engine fuel delivery pressure	65263	94
Engine oil pressure	65263	100
Engine coolant pressure	65263	109
Engine coolant temperature	65263	110
Engine coolant level	65263	111
Engine fuel rate	65266	183
Engine average fuel economy	65266	185
Engine intake manifold #1 pressure	65270	102
Battery potential / power input 1	65271	168
Transmission oil temperature	65272	177
Transmission oil pressure	65272	127
Fuel level	65276	96
Engine oil filter differential pressure	65276	969

物质宣言

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	X	O	O	O	O	O	O	O	O	O
屏幕/背光	X	O	O	O	O	O	O	O	O	O
金属零件	X	O	O	O	O	O	O	O	O	O
电缆 电缆组件 连接器	X	O	O	O	O	O	O	O	O	O
塑料和橡胶零件	O	O	O	O	O	O	O	O	O	O

本表格依据 SJ/T11364 的规定编制。

O: 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

X: 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。

产品

中国微功率无线电发射设备合规

一）工作于 2.4 GHz 频段的 ANT 技术无线遥控设备，使用频率：2.4 GHz, 发射功率限值：<10 mW (e.i.r.p.)(e.i.r.p), 频率容限：<170 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 10–32 Vdc 。

联系信息

制造厂商：台湾国际航电股份有限公司

销售厂商：上海佳明航电企业管理有限公司

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