

GARMIN®

LIVESCOPE™ PLUS ICE FISHING KIT INSTALLATION INSTRUCTIONS

Important Safety Information

WARNING

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

To obtain best performance and to avoid possible damage, you must install this mount using these instructions. Read all installation instructions before proceeding with the installation. If you experience difficulty during the installation, go to support.garmin.com for more information.

Battery Warnings

WARNING

The Garmin® device uses a user-replaceable, sealed, lead-acid battery. If these guidelines are not followed, the battery may experience a shortened life span or may present a risk of damage to the device, fire, chemical burn, electrolyte leak, and/or bodily injury.

- Do not place the battery near objects that may cause sparks, flames, or heat.
- Do not incinerate the battery.
- Do not use a sharp object to remove the battery.
- Do not disassemble, puncture, or damage the battery.
- Do not swallow, touch, or inhale the contents of an open battery. Avoid contact with internal acid. Contact with internal acid may cause irritation or severe burns. Irritation may occur to the eyes, respiratory system, and skin. Flush with water at once if contact is made with acid.
- Do not submerge the battery and avoid contact with water.
- Do not short the battery terminals.
- Do not drop or throw the battery.
- Keep the battery away from children.
- Only replace the battery with the correct replacement battery. Using another battery presents a risk of fire or explosion of the device or charger.
- Only use the included Garmin 12 Vdc charger.
- Do not charge the battery in an unventilated area.
- Store in a cool, dry, and well-ventilated area.
- Do not charge the battery in a gas-tight container.
- Do not leave the device exposed to a heat source or in a high-temperature location, such as in the sun in an unattended vehicle. To prevent damage, remove the device from the vehicle or store it out of direct sunlight.
- Do not use organic solvents or other cleaners other than recommended chemical cleaners on the battery.
- Contact your local waste disposal department to dispose of the battery in accordance with applicable local laws and regulations.
- When storing the battery for an extended time, store within the following temperature range: from 5° to 104°F (from -15° to 40°C).
- Do not operate the battery outside of the following temperature range: from 5° to 122°F (from -15° to 50°C).



Charging the Battery

CAUTION

Ensure that you connect the correct spade connector to the correct battery terminal. Damage to the battery or device, or bodily harm may occur if the device is improperly connected to the battery.

You should always use the all-in-one cable to charge the battery.

- 1 Remove the battery terminal covers.
- 2 Connect the red and black spade connectors from the all-in-one cable onto the corresponding battery terminals.
- 3 Connect the all-in-one cable to the wall charger.
- 4 Connect the wall charger to the wall outlet.

The light on the wall charger is solid orange when the battery is charging. It takes about 10 to 12 hours in a room-temperature environment to fully charge a fully discharged battery. When the light is solid green, the battery is fully charged.

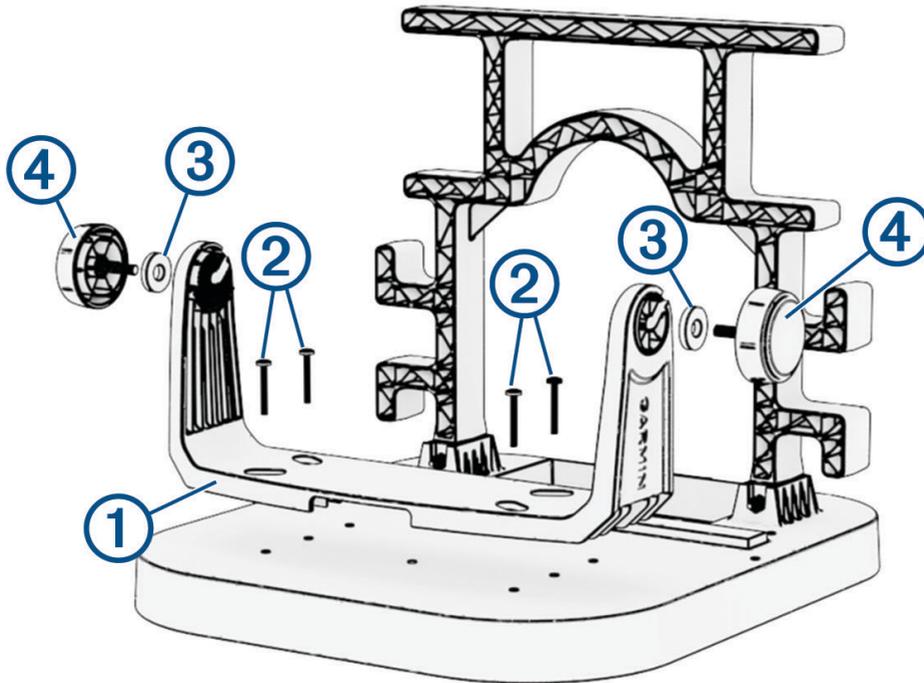
Battery Tips

- The length of time a fully charged battery will last before fully discharging varies based on many factors, such as device backlight brightness, the temperature, and the age of the battery.
- You can lower the backlight brightness level to help extend the battery life.
- The life expectancy of a sealed, lead-acid battery can be extended by frequently recharging and not completely discharging the battery.
- Sealed, lead-acid batteries slowly lose their charge while in storage. For best results, charge the battery prior to use.
- When used in cold temperatures, sealed, lead-acid batteries do not hold the charge as long as in warmer temperatures.
- Sealed, lead-acid batteries are recyclable.

Attaching the Bail Mount

You need a Phillips screwdriver to attach the bail mount to the portable mount.

- 1 Align the chartplotter bail mount ① over the hole pattern that matches your bail mount, with the openings on the top of the bail mount facing the back of the base.



- 2 Secure the bail mount to the base using the four included 24 mm machine screws ② and the included washers, if you are installing a metal bail mount.

NOTICE

If you are installing a metal bail mount, use the included washers to protect and reinforce the base. If you are installing a plastic bail mount, you do not need to use the washers.

NOTE: Do not use the self-threading screws included with the chartplotter. Only use the machine-threaded screws included with this portable kit or use M4 machine screws.

- 3 Place the included rubber washers ③ on the bail-mount knobs ④, and screw the knobs into the sides of the cradle or chartplotter.
- 4 Place the cradle or chartplotter into the bail mount, with the rubber washers between the knobs and the cradle or chartplotter, and tighten the knobs.
The rubber washers enable you to adjust the viewing angle without adjusting the knobs.

Assembling the Garmin Ice Fishing Pole Mount

You need a Phillips screwdriver to assemble the Garmin Ice Fishing Pole Mount.

NOTICE

Keep the transducer cable secure during installation. Damage to the transducer cable wire or the cable jacket can cause transducer failure.

- 1 Insert the Phillips head sheet metal screws included with the pole mount into the four corners of the pole mount base ①.

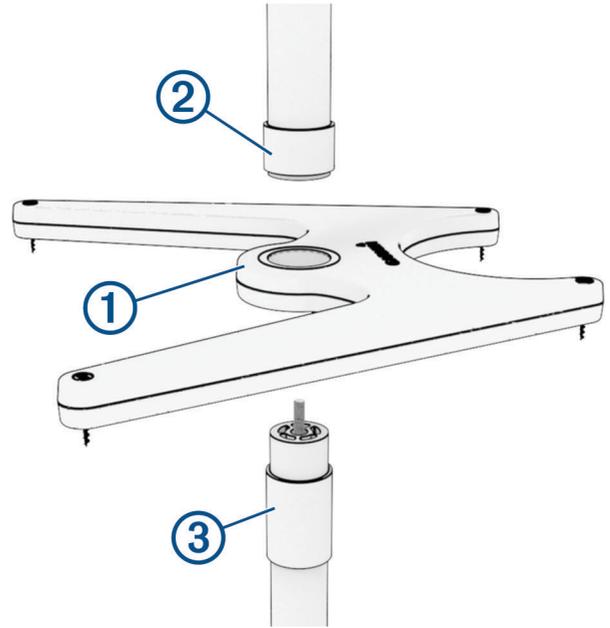
The screws protrude from the bottom of the base to stabilize it on the ice.

- 2 Locate the pole handle and the top pole segment.
- 3 Place the base between the pole handle ② and the top pole segment ③, and screw them together.

- 4 Determine how many of the three middle pole segments you need to use, based on the thickness of the ice.

TIP: The top of the transducer must be below the bottom of the ice for best performance.

- 5 Screw together the needed segments, with the shortest segment on the bottom of the pole.



Installing the Transducer on the Garmin Ice Fishing Pole Mount

⚠ CAUTION

Keep the transducer cable secure. Failure to do so could create a trip and fall hazard, which could result in personal injury.

NOTICE

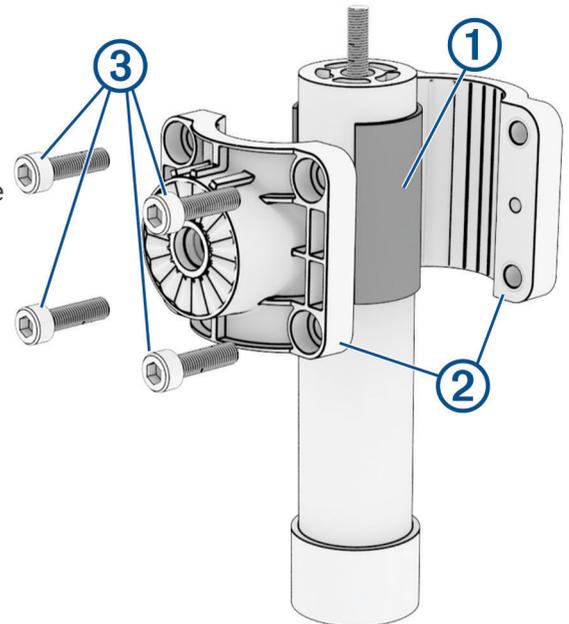
You can use electrical tape or cable ties to secure the transducer cable. If you use cable ties, do not over-tighten them. Over-tightening cable ties can damage the cable and cause transducer failure.

NOTE: If you do not plan to change the viewing mode of the transducer often or prefer a lower-profile installation without the adjustment knob, you can use the included low-profile hardware ([Installing the Transducer Using Low-Profile Mounting Hardware](#), page 8).

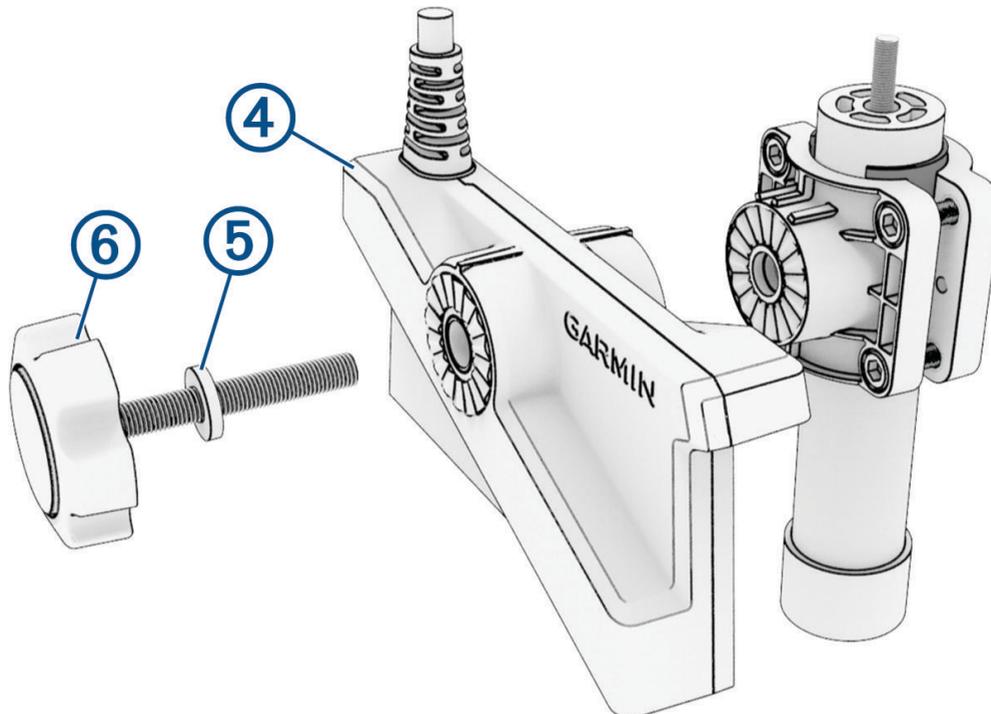
TIP: The top of the transducer must be below the bottom of the ice for best performance.

To install the transducer on the Garmin Ice Fishing Pole Mount, you need the included hardware and hex wrench.

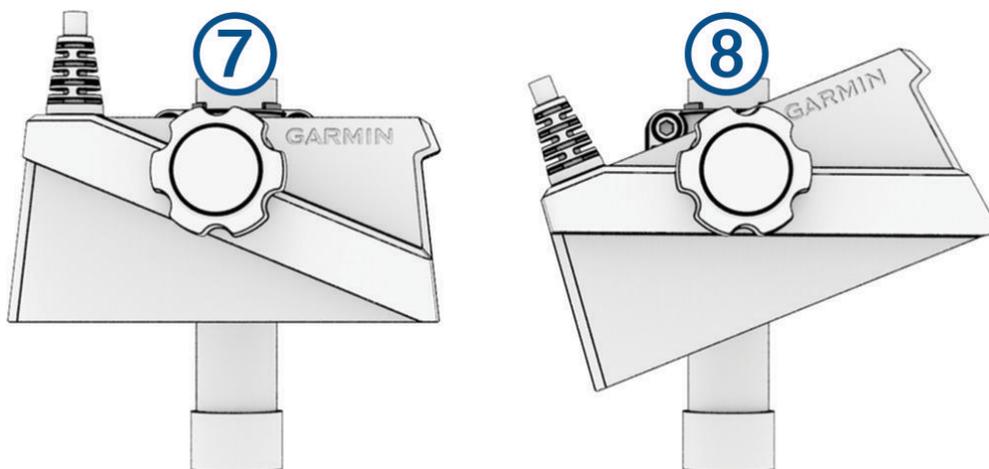
- 1 If the pole is equal to or less than 25 mm (1 in.) in diameter, wrap the rubber liner ① around the pole at the mounting location.
- 2 Place the halves of the shaft-mount bracket ② around the rubber liner at the mounting location.
- 3 Insert the screws ③ into the shaft mount bracket, and secure them using the hex wrench.



- Place the transducer ④ against the shaft-mount bracket, and secure it using the neoprene washer ⑤ and knob ⑥.



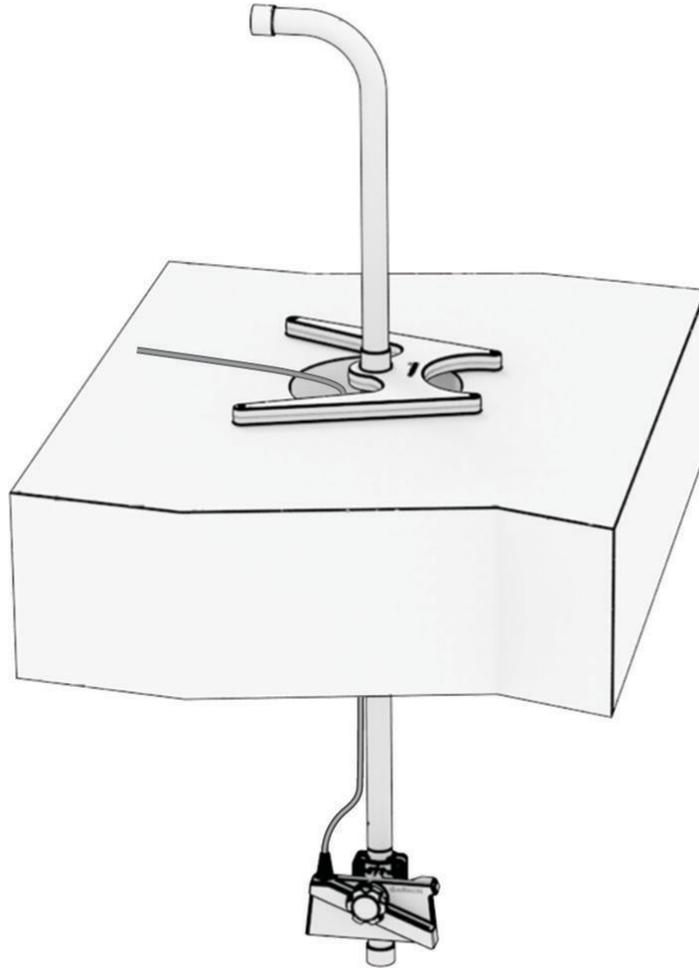
- Secure the transducer cable to the pole or other secure location, and route the cable to the GLS™ 10 sonar module.
- Connect the transducer cable to the XDCR port on the GLS 10 sonar module.
TIP: To reduce electromagnetic interference, snap the ferrite bead (if included) onto the transducer cable near the connector to the GLS 10 sonar module.
- Position the transducer for the desired view.
TIP: Turn the transducer one click to change the orientation from down ⑦ to forward ⑧.



- After mounting the transducer on the pole, use the hook and loop straps to secure the transducer cable to the pole.

9 Place the mount base around the hole in the ice.

10 Rotate the handle to aim the transducer.



Effective Forward and Down Range

NOTE: Water conditions and bottom conditions affect the depth and range performance of the transducer. You should use caution and observe the water depth and range, especially when your unit is operating in manual range or depth mode.

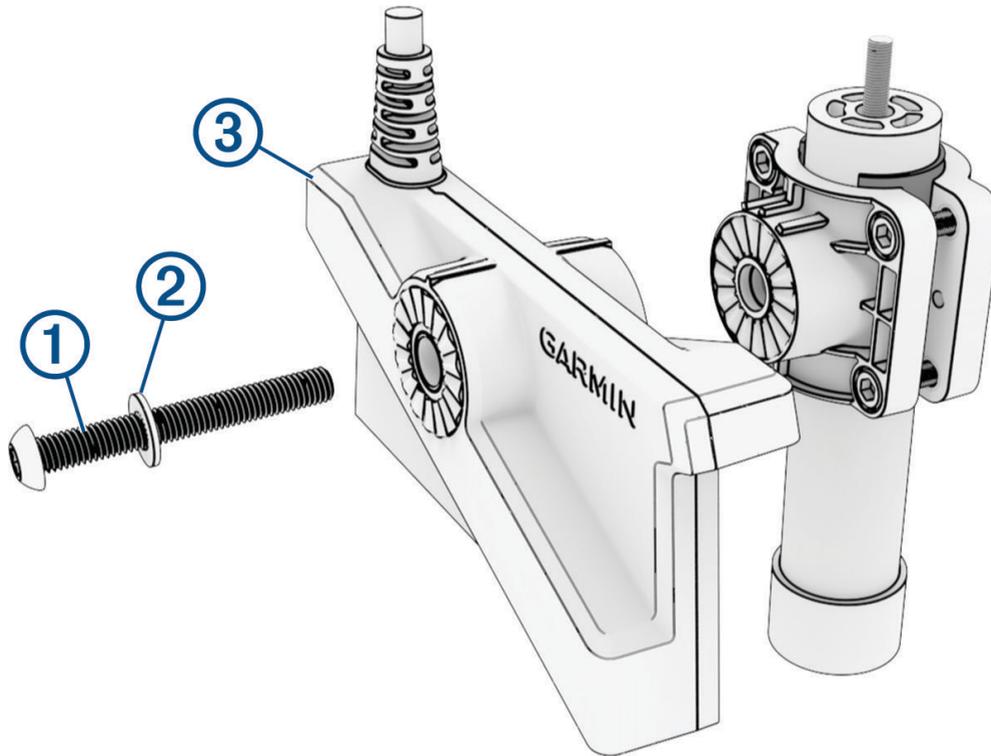
When operating in LiveVü Forward mode, the transducer has an effective forward range of between five and eight times the depth of the water. For example, in 3 m (10 ft.) of water, the effective forward range is between 15 and 24 m (between 50 and 80 ft.). Water conditions and bottom conditions affect the actual range.

When operating in LiveVü Down mode, the fore/aft range is equal to the depth of the water. For example, in 10 m (33 ft.) water depth, the screen will display 5 m (16 ft.) fore and 5 m (16 ft.) aft of the transducer. Deeper water provides a greater fore and aft range.

Installing the Transducer Using Low-Profile Mounting Hardware

If you do not plan to change the viewing mode of the transducer often, or prefer a lower-profile installation without the adjustment knob, you can use the included low-profile hardware.

- 1 Install the mounting bracket but do not use the included adjustment knob (*Installing the Transducer on the Garmin Ice Fishing Pole Mount, page 5*).
- 2 Instead of using the knob, use the low-profile screw ① and metal washer ② to secure the transducer ③ to the mounting bracket.



- 3 Adjust the view of the transducer and tighten the low-profile screw using the included hex wrench.

Connecting and Stowing the Cables

⚠ CAUTION

Ensure that you connect the correct spade connector to the correct battery terminal. Damage to the battery or device, or bodily harm may occur if the device is improperly connected to the battery.

NOTE: The gray + and - connectors on the power cable are for connecting to an optional PS22 transducer.

- 1 Connect the 4-pin power cable and network cable to the chartplotter.
- 2 If you are connecting an optional PS22 transducer, connect the power leads to the gray bare wire connectors on the power cable.
- 3 Slide the positive (red) spade connector onto the positive (red) terminal on the battery.
- 4 Slide the negative (black) spade connector onto the negative (black) terminal on the battery.
- 5 If necessary, wrap excess any excess cable around the hooks on the sides of the handle on the portable mount.

Specifications

Ice Fishing Bundle Specifications

Battery type	Sealed, lead acid, 12 Ah
Battery life	Up to 7 hr. NOTE: The actual battery life of a fully charged battery can vary based on the device used, backlight brightness, temperature the battery is operated and stored in, age of the battery, and depth of the water.
Battery discharge at 0°C (32°F)	5.6 hr. with screen brightness at 100%, 7.5 hr. at 50%
Battery shelf life after charging	1 mo.: 92% 3 mo.: 90% 6 mo.: 80%
Battery operating temperature range	From -15° to 50°C (from 5° to 122°F)
Battery charging temperature range	From -15° to 40°C (from 5° to 104°F)
Battery storage temperature range	From -15° to 40°C (from 5° to 104°F)
Physical size, assembled kit with device (L x W x H)	35 x 31 x 33 cm (13.8 x 12.2 x 13.0 in.)
Weight without device	8.68 kg (19.15 lb.)

LVS34 Specifications

Dimensions (L x H x W)	161.7 x 77.5 x 47.8 mm (6.37 x 3.05 x 1.88 in.)
Weight (transducer only)	1018 g (2.25 lb.)
Frequencies	From 530 to 1,100 kHz
Operating temperature	From -10° to 40°C (from 14° to 104°F)
Storage temperature	From -40° to 85°C (from -40° to 185°F)
Maximum depth/distance ¹	61 m (200 ft.)
Field of view	Front to back: 135 degrees Side-to-side: 20 degrees

¹ Dependent upon water salinity, bottom type, and other water conditions.

GLS IO Sonar Module Specifications

Dimensions (W x H x D)	245 x 149 x 65 mm (9.7 x 5.9 x 2.6 in.)
Weight	1.96 kg (4.33 lbs.)
Operating temperature	From -15° to 70°C (from 5° to 158°F)
Storage temperature	From -40° to 85°C (from -40° to 185°F)
Power input	From 10 to 32 Vdc
Power usage	21 W typical, 24 mW min., 58 W max.
Compass-safe distance	178 mm (7 in.)
Data output	Garmin Marine Network

Open-Source Software License

To view the open-source software license(s) used in this product, go to developer.garmin.com/open-source/linux/.

Cleaning the Transducer

Aquatic fouling accumulates quickly and can reduce your device's performance.

- 1 Remove the fouling with a soft cloth and mild detergent.
- 2 Wipe the device dry.

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