

CORTEX[®] H1P HANDSET 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.

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

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

When connecting the power cable to the power supply, you must install an inline fuse or circuit breaker (not included), as listed in the product specifications, to prevent the possibility of personal injury or product damage caused by fire or overheating. Connecting the power cable without adequate circuit protection voids the product warranty.

CAUTION

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

NOTICE

To avoid damage to your boat, this device should be installed by a qualified marine installer. Specific knowledge of marine electrical systems is required for proper installation.

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

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.

Tools and Supplies Needed

- Drill
- Drill bit suitable for drilling pilot holes in the mounting surface
- 3 mm ($\frac{1}{8}$ in.) drill bit suitable for drilling a cable pass-through hole in the mounting surface
- Phillips screwdriver
- 16 AWG (1.5 mm²) 2-conductor electrical cable long enough to reach the cradle mounting location from the battery
- Waterproof wire connectors
- 2 A fuse or breaker
- Marine sealant (optional)
- Plastic prying tool or small flat screwdriver

Mounting Considerations

When selecting a mounting location, observe these considerations.

NOTICE

You must select a mounting location that protects the charging cradle from exposure to water. Exposure to water can cause the charging contacts on the cradle and the handset to corrode, leading to product damage and malfunction.

- To route the charging cradle power cable through the bulkhead, you must select a mounting location with at least 60 mm ($2\frac{1}{2}$ in.) of clearance behind the bulkhead.
- You must select a mounting location that is within range of the Wi-Fi[®] network used to connect to the Cortex hub¹.

Preparing the Mounting Surface

- 1 Using a plastic pry tool or a small flat screwdriver, remove the cover plate from the handset cradle to expose the mounting holes.



- 2 Place the cradle in the mounting location, and mark the three pilot holes.
- 3 If you are routing the power cable through the bulkhead, mark the location of the center hole.
- 4 Set the cradle aside.
- 5 Drill the three pilot holes for the mounting screws.
- 6 If you are routing the power cable through the bulkhead, drill the center hole through the mounting surface using a 3 mm ($\frac{1}{8}$ in.) drill bit.

¹ The Cortex hub can broadcast its own Wi-Fi network or it can use the boat's Wi-Fi network to connect to Cortex handsets and the Cortex Onboard™ app. See the Cortex hub *Owner's Manual* for more information.

Installing the Charging Cradle

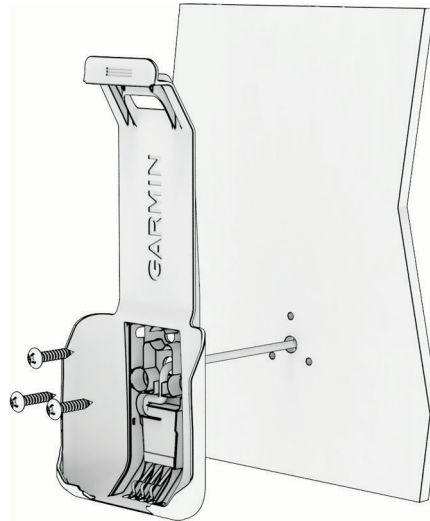
WARNING

When connecting the power cable to the power supply, you must install an inline fuse or circuit breaker (not included), as listed in the product specifications, to prevent the possibility of personal injury or product damage caused by fire or overheating. Connecting the power cable without adequate circuit protection voids the product warranty.

NOTICE

When connecting wires, you must use waterproof connectors to protect the conductors from corrosion that can lead to product malfunction.

- 1 Route a 2-conductor, 16 AWG (1.5 mm²) marine-grade electrical cable (not included) between the mounting location and the battery.
- 2 Select an option:
 - If you routed the power cable through the mounting surface, feed the cradle power cable out through the center hole in the cradle.
 - If you routed the power cable on top of the mounting surface, feed the cradle power cable out through the small hole on the right or left side of the charging cradle.
- 3 Connect the red wire from the cradle to the positive wire from the battery, and the black wire from the cradle to the negative wire from the battery.
- 4 If the mounting location is exposed to the weather, apply marine sealant to the mounting screws and around the cable pass-through hole, to protect the mounting surface material from moisture.
- 5 Secure the cradle to the mounting surface using the included screws.




- 6 Make sure the power cable is seated correctly in the grooves inside the cradle, and snap the cover plate back on.
- 7 Install a 2 A fuse or circuit breaker (not included) on the positive wire, near the power supply.
- 8 Connect the positive wire to the positive (+) battery terminal, and connect the negative wire to the negative (-) battery terminal.

Using the Cradle

- Place the bottom of the handset in the cradle and push it back to lock it into the cradle.




The  icon appears in the status bar.

- To remove the handset, push the retaining latch back to release the handset from the cradle.



Connecting the Handset to the Cortex Hub

- 1 Turn on the handset.
- 2 Select .
- 3 Enter the SSID and password for the Cortex hub's Wi-Fi network.
- 4 Select **Connect**.

Specifications

Dimensions (H×W×D)	164.8 × 71.8 × 21.4 mm (6.5 × 0.8 × 0.9 in.)
Weight	235 g (0.52 lb.)
Operating temperature range	From -20° to 55°C (from -4° to 131°F)
Storage temperature range	From -25° to 70°C (from -13° to 158°F)
Compass-safe distance	80 cm (31.5 in.)
Water rating	IEC 60529 IPX8 ²
Power supply	From 10.8 to 32 VDC
Maximum power	12 W (1 A at 12 V)
Fuse amperage	2 A
Sound output	3W Class D amplifier, THD < 5% @ 85dBA
EU SAR	0,01 W/kg torso, 0,07 W/kg limb
Battery type	Lithium Polymer
Battery life	10 hours ³
Charge time	2 hours

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² The device withstands incidental exposure to water of up to 2 m for up to 60 min. For more information, go to garmin.com/waterrating.

³ Battery life estimate reflects typical usage. Actual battery life depends on volume and display brightness settings and how often the speaker is used.

