GARMIN.

REACTOR™ AUTOPILOT REMOTE CONTROL 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.

You are responsible for the safe and prudent operation of your vessel. The autopilot is a tool that enhances your capability to operate your boat. It does not relieve you of the responsibility of safely operating your boat. Avoid navigational hazards and never leave the helm unattended.

Always be prepared to promptly regain manual control of your boat.

Learn to operate the autopilot on calm and hazard-free open water.

Use caution when operating the autopilot near hazards in the water, such as docks, pilings, and other boats.

Getting Started

Installing Batteries
The remote control operates using two AA batteries (not included). Use lithium batteries for best results.

1 Turn the D-ring counter-clockwise, and pull up to remove the cover.
2 Insert two AA batteries, observing polarity.

3 Replace the battery cover, and turn the D-ring clockwise.

Attaching a Lanyard
1 Starting from the back of the remote control, insert the loop of the lanyard ① through the slot.

2 Thread the other end of the lanyard ② through the loop, and pull it tight.

3 If necessary, place the lanyard around your neck or wrist to tether it during use.

Installing the Cradle
You can install the included cradle to hold the remote control when not in use.

1 Using the cradle as a template, mark the pilot hole locations on the mounting surface.
2 Set the cradle aside.
   Do not drill through the cradle.
3 Using a 3 mm (1/8 in.) drill bit, drill the pilot holes.
4 Using the included screws, secure the cradle to the mounting surface.

Keys

Key	Description
⏻ (①)	Turns the remote control on and off when held
🔦	Gesture controls (*Gesture Controls*, page 2)
Ⓐ	Engage or standby (*Engaging and Disengaging Heading Hold*, page 2)
◀◀ ▶▶	Step steering
▲ ▶ ▼ ◀	Navigates the menu When not in the menu, press ◀ and ▶ for single-degree step turns, or hold for rudder steering When not in the menu, press ▲ and ▼ for incremental throttle changes, or hold for continuous throttle changes (available only on select autopilot models)
⏱	Cruise control (available only on select autopilot models)
▶II	Idle or resume (available only on select autopilot models)
≡	Opens the remote control menu
🔒	Locks or unlocks the keys
1 through 3	Action keys (*Activating Patterns or Actions Assigned to the Action Keys*, page 2)
MOB	Man overboard (*Marking and Starting Navigation to a Man Overboard Location*, page 3)

Pairing the Remote Control
Before you can use the remote control with your autopilot system, you must pair the remote control with a helm control, such as a GHC™ 20, or a compatible chartplotter connected to the same NMEA 2000® network as the autopilot system.

Pairing the Remote Control with a Helm Control
1 On the helm control, select **Menu** > **Setup** > **Remote** > **Search for Remote**.
   Enabled appears on the screen.
2 On the remote control, select ≡ > **Pair with GHC**.
   The helm control beeps and shows a confirmation message.

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3 Select **Connect**.

Pairing the Wireless Remote Control with a Chartplotter

1 On the chartplotter, select **Settings** > **Communications** > **Wireless Devices** > **Wireless Remotes** > **Autopilot Remote**.

2 If necessary, select **Enable**.

3 Select **New Connection**.

4 On the remote control, select ▤ > **Pair with MFD**.

The chartplotter beeps and shows a confirmation message.

5 On the chartplotter, select **Yes** to complete the pairing process.

Operation

Remote Control Screen

The remote control screen shows the status of the autopilot and other important information.

▤	Remote control battery level indicator.
🔒	Remote control key lock indicator. Appears when the keys are locked.
①	Autopilot status. Indicates when the autopilot is in standby, in a heading hold, or steering a pattern.
②	Autopilot data. Displays information relevant to the autopilot status.

Engaging and Disengaging Heading Hold

You can use the remote control to engage and disengage the autopilot.

Press Ⓐ.

The status of the autopilot changes on the remote screen.

Adjusting the Heading

1 If necessary, engage the autopilot.

2 Select an option:

- To adjust the heading one degree port or starboard, press ❮ or ❯.
- To adjust the heading by the configured step-turn increment port or starboard, press ◀◀ or ▶▶.

  NOTE: The default step-turn increment is 10 degrees. You can configure the step-turn increment on the connected helm control or chartplotter.

- To adjust the heading by multiple, accumulated step-turn increments, hold ◀◀ or ▶▶.
- To steer the rudder port or starboard, hold ❮ or ❯, and release.

Activating Patterns or Actions Assigned to the Action Keys

The action keys on the remote control are pre-programmed with patterns or other actions, depending on the type of autopilot system. You can change the patterns or actions assigned to these keys (*Changing the Functions of the Action Keys*, page 2).

1 Press the action key assigned to the pattern or action you want to use.

The pattern or action appears on the remote control screen.

2 Select an option:

- If the pattern or action requires you to choose a direction, press ❮ or ❯.
- If the pattern or action does not require you to choose a direction, press the action key again to begin the pattern or action.

Changing the Functions of the Action Keys

You can change the patterns or actions assigned to the action keys using a connected helm control or chartplotter.

1 Select an option:

- On a helm control, select **Menu** > **Setup** > **Remote**.
- On a chartplotter, select **Settings** > **Communications** > **Wireless Devices** > **Wireless Remotes** > **Autopilot Remote** > **Button Actions**.

2 Select an action key to change.

3 Select a pattern or action to assign to the action key.

Activating a Route To Action

Before you can use the Route To feature on the remote control, you must connect your autopilot system to a compatible chartplotter, assign the Route To action to a programmable key on the remote (*Changing the Functions of the Action Keys*, page 2), and define a route on the chartplotter.

1 Press the action key assigned to the **Route To** action.

Route To appears on the remote screen.

2 Press the action key again to activate the **Route To** action.

Changing Directions Using an Action Key

Before you can use an action key to change the autopilot direction (forward or reverse), you must program a key for the direction control action (*Activating Patterns or Actions Assigned to the Action Keys*, page 2).

1 Bring the boat to a stop and disengage the autopilot.

2 Press the action key assigned to the direction control action to switch between forward and reverse.

Gesture Controls

You can point or move the remote control to interact with the autopilot system. You must calibrate the compass in the remote control before you can use the gesture-controls feature (*Calibrating the Compass*, page 2).

Using Gesture Controls to Engage Heading Hold

You can use the remote control to set the autopilot heading hold in a specified heading.

1 Point the remote control toward where you want to engage or change the heading hold.

2 Press and release ✋.

The autopilot engages or changes the heading hold, and steers the boat in the direction you were pointing toward when you pressed the key.

Using Gesture Controls to Adjust your Heading

You can adjust the heading of the autopilot by moving the remote control.

1 If necessary, engage the autopilot.

2 Press and hold ✋.

3 While holding ✋, move the remote control to the left or right to adjust the heading port or starboard.

4 Release ✋ to stop adjusting the heading.

Calibrating the Compass

> *NOTICE*
>
> Calibrate the electronic compass outdoors. To improve heading accuracy, do not stand near objects that influence magnetic fields, such as vehicles, buildings, and overhead power lines.

You must calibrate the compass in the remote control before you can use the gesture-controls feature. If the gesture-controls feature is not working properly after calibration, you can repeat this process as often as needed.

1 Select ☰ > **Compass Calibration**.
2 Follow the on-screen instructions.

Marking and Starting Navigation to a Man Overboard Location

1 Select **MOB**.

The name and image of the MOB search pattern appear on the screen.

2 Select ◀ or ▶ to select the direction and begin following the MOB pattern.

Sailboat Features

Sailing-specific functions and patterns are available for the programmable keys when you connect your remote control to an autopilot on a sailboat.

Activating a Wind Hold Action

Before you can activate a wind hold, you must assign the wind hold action to an action key (*Changing the Functions of the Action Keys*, page 2).

1 Press the action key assigned to the wind hold action.

The wind hold direction appears on the remote control screen.

2 Press the action key again to activate wind hold.

Tacking and Gybing

Before you can activate a tack or gybe using the remote control, you must assign the tack and gybe action to an action key (*Changing the Functions of the Action Keys*, page 2).

Before you can activate a tack or a gybe from heading hold (as opposed to wind hold), you must define the tack and gybe angle using the helm control or chartplotter. See the owner's manual for your helm control or chartplotter for more information.

1 From heading hold or wind hold, select the action key assigned to **Tack/Gybe**.
2 Press ◀ or ▶ to tack or gybe to port or starboard.

Settings

These settings affect the remote control only. You must adjust the helm control or chartplotter settings on the helm control or chartplotter.

Press ☰.

Backlight: Adjusts the backlight level of the screen.

Beeper: Sets if and when audible sounds are used.

Compass Calibration: Calibrates the compass for the gesture-controls feature.

Units: Sets the units of measure.

Restore Defaults: Restores the remote control to factory default settings.

About: Shows information about the remote control.

Specifications

Dimensions (W×H×D)	152 x 52 x 32 mm (6 x 2 x $1^1/_4$ in.)
Weight	109 g (3.8 oz.) without batteries
Material	Glass-filled nylon
Display type	Sunlight-visible, transflective memory-in-pixel (MIP)
Display resolution	R240 x 240 pixels
Display size (diameter)	30.2 mm ($1^3/_{16}$ in.)
Operating temperature	From -15° to 55°C (5° to 131°F)
Storage temperature	From -40° to 85°C (-40° to 185°F)

Battery type	2 AA (not included)
Battery life	240 hr., typical use
Radio frequency	2.4 GHz @ 3.4 dBm nominal
Water rating	IEC 60529 IPX7[1]
Compass-safe distance	15 cm (6 in.)

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[1] Withstands incidental exposure of water up to 1 m for up to 30 min.