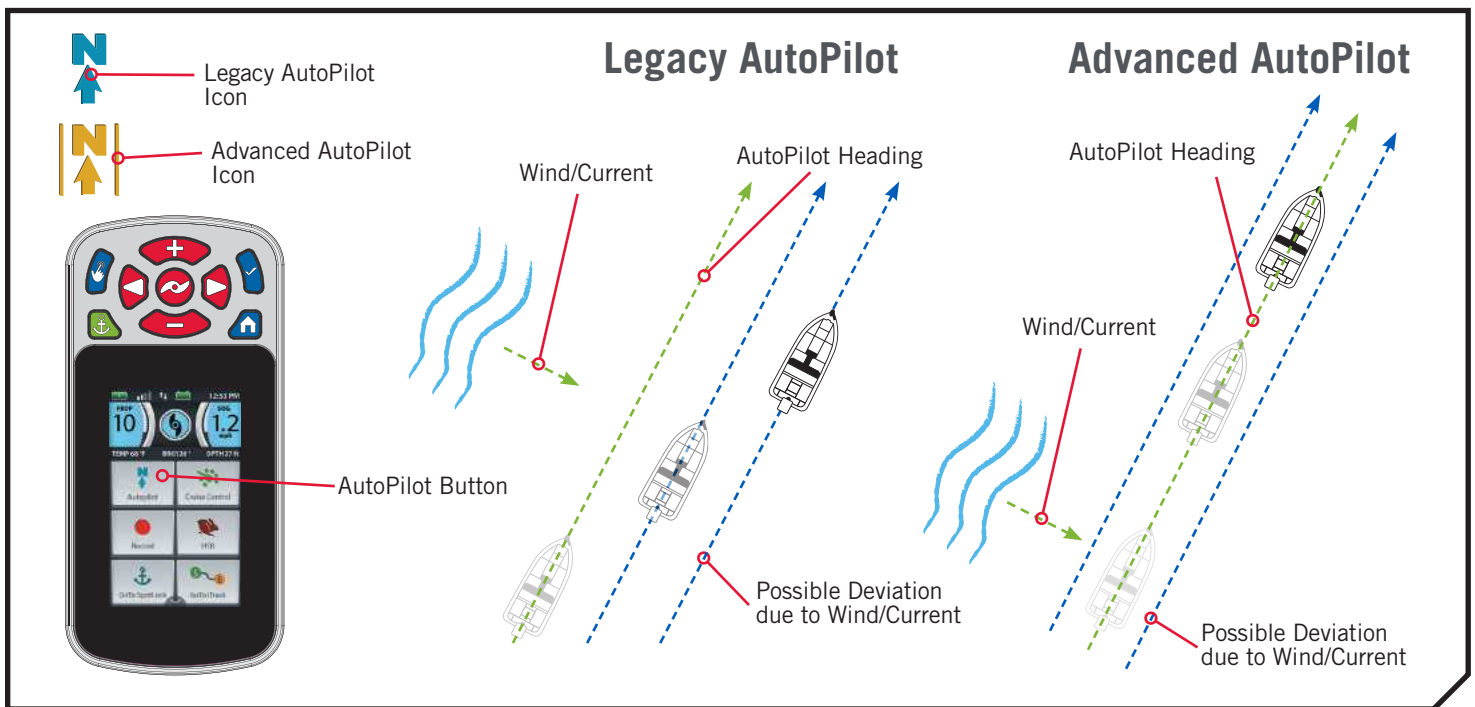# AUTOPILOT

i-PILOT LINK WITH AUTOPILOT

When in AutoPilot, i-Pilot Link keeps the trolling motor pointed in the direction you want to go. Each time the wind or water current moves the boat off course, AutoPilot senses the change and steers itself back to the original heading. The AutoPilot direction is set every time a steering change is made. To change direction, steer until the Control Head points to the desired course. AutoPilot will pull the bow of the boat around and correct automatically until the boat is moving in the direction you chose.

AUTOPILOT MODES

Two different modes of AutoPilot are available, Advanced AutoPilot and Legacy AutoPilot. Both are collectively referred to as AutoPilot. There are distinct differences between the two AutoPilot Modes and how they control your boat. Both Advanced AutoPilot and Legacy AutoPilot are valuable tools the fisherman can use for accurate and precise bait presentation. We highly recommend getting on the water and trying both Advanced AutoPilot and Legacy AutoPilot in various fishing situations and applications. With experimentation and time you will find which AutoPilot Mode works best for you in any given situation.

› Legacy AutoPilot

AutoPilot uses an internal compass to provide heading lock. When Legacy AutoPilot is on, it keeps the motor pointed in the same compass direction. If a manual steering correction is made, Legacy AutoPilot locks onto the new compass heading to which the boat was steered. This method of heading tracking does not take into account external forces such as a side wind or currents, which can allow side drift.

› Advanced AutoPilot

Advanced AutoPilot not only uses compass heading but also GPS data to correct for cross winds, current and other external forces to keep the boat on the intended course. When Advanced AutoPilot is turned on, it creates a course that it will follow.   When the user steers to a new heading, a new course is created. Advanced AutoPilot will keep the boat on the course in most conditions. When very extreme conditions exist such as very strong winds or current, the trolling motor may not have enough power to control the boat smoothly. In these extreme cases it may be best to use Legacy AutoPilot and let the boat move with the wind or current if the motor is not powerful enough to overcome it.

AUTOPILOT

❯ Engaging Legacy AutoPilot or Advanced AutoPilot

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using your finger or the Screen Navigation 🎛 button to find the AutoPilot button.

c. Select the AutoPilot button using your finger or by pressing the Ok 🔘 button.

d. The AutoPilot Active Band will appear in the Content Area. Either Legacy AutoPilot or Advanced AutoPilot will be engaged depending on the AutoPilot Mode selected.

e. To adjust the desired heading, manually steer the motor to the new heading. i-Pilot will automatically lock onto the new heading.

> **NOTICE:** If the Prop is not turning or is flashing, be sure to press the Prop Button 🔄 to enable it. The Prop behavior for AutoPilot can be changed with the Prop Auto On setting. Read "To Toggle the Prop Auto On" section of this manual for more information.

> **NOTICE:** After steering to a new direction, there is a short delay before the direction is locked in to allow the compass to stabilize. When broad speed changes are made, the motor heading may change slightly. This is normal.


⚠ CAUTION

This unit uses a magnetic compass to detect direction of travel. The compass can be adversely affected by magnets or large, ferrous metal objects near (within 24" of) the trolling motor control head.

Obstructions on the propeller may cause excessive vibration of the motor head. This vibration can cause the compass to wander and erratic steering to occur. Clear the obstruction to return the motor to normal operation.

> **NOTICE:** When AutoPilot is on and the trolling motor is pulled out of the water to the stow position, the steering motor will continue to run. Turn off AutoPilot to stop the motor. If AutoPilot is left on, the steering motor will shut off automatically after 8 seconds. The motor should not be stored in this condition for long periods as power is still being applied to all electronics. Always turn AutoPilot off and disconnect your motor from the battery when storing your motor.

› Disengaging Legacy AutoPilot or Advanced AutoPilot

1

   a.   When AutoPilot is engaged, scroll through the Content Area using your finger or the Screen Navigation ⬡ button to find the AutoPilot ⬚ button.

   b.   Select the AutoPilot ⬚ button using your finger or by pressing the Ok ⬡ button. The AutoPilot Active Band will disappear from the Content Area.

   c.   AutoPilot can also be disengaged by selecting the AutoPilot Active Band and then selecting the Cancel ⬚ button.

> **NOTICE:** Pressing the AutoPilot button on the Foot Pedal also disengages AutoPilot.

› To Set the Default AutoPilot Mode

AutoPilot has two modes:

1. Legacy - This method of heading tracking does not take into account external forces such as a side wind or currents, which can allow side drift.
2. Advanced - Advanced AutoPilot not only uses compass heading but also GPS signal data to correct for cross winds, current and other external forces to keep the boat on a straight line.

Once it is determined which AutoPilot Mode to operate in, use the following instructions to set it as the default.

1

   a.   Press the Home ⬡ button.

   b.   Scroll through the Content Area using either your finger or the Screen Navigation ⬡ button to find the Options ⬚ button.

   c.   Select the Options ⬚ button using either your finger or by pressing the Ok ⬡ button to open the Options Menu.

AUTOPILOT

\\\

2

d. Once in the Options Menu, scroll through to find the AutoPilot Mode [AutoPilot Mode >] option, and select it.

e. The AutoPilot Mode options appear. Select either "Legacy" [Legacy ○] or "Advanced"
    □ [Advanced ○]. The circle to the right of the selected mode will be colored in green when selected.

> **NOTICE:** When AutoPilot is engaged, selecting the AutoPilot Active Band will also bring up the AutoPilot Mode options. The AutoPilot button and Active Band will change in appearance to either Legacy or Advanced depending on which AutoPilot Mode is selected.

f. To exit the menu, select either the Back [< Back] button or the Home [🏠 Home] button.

\\\
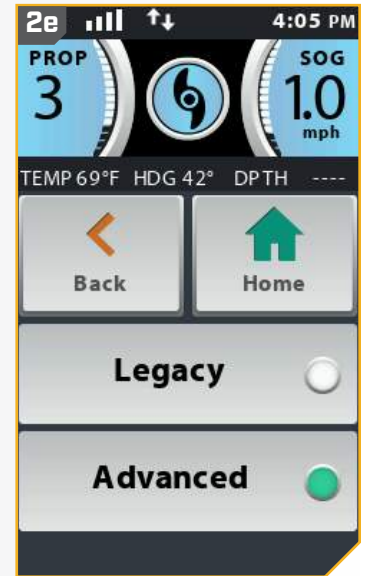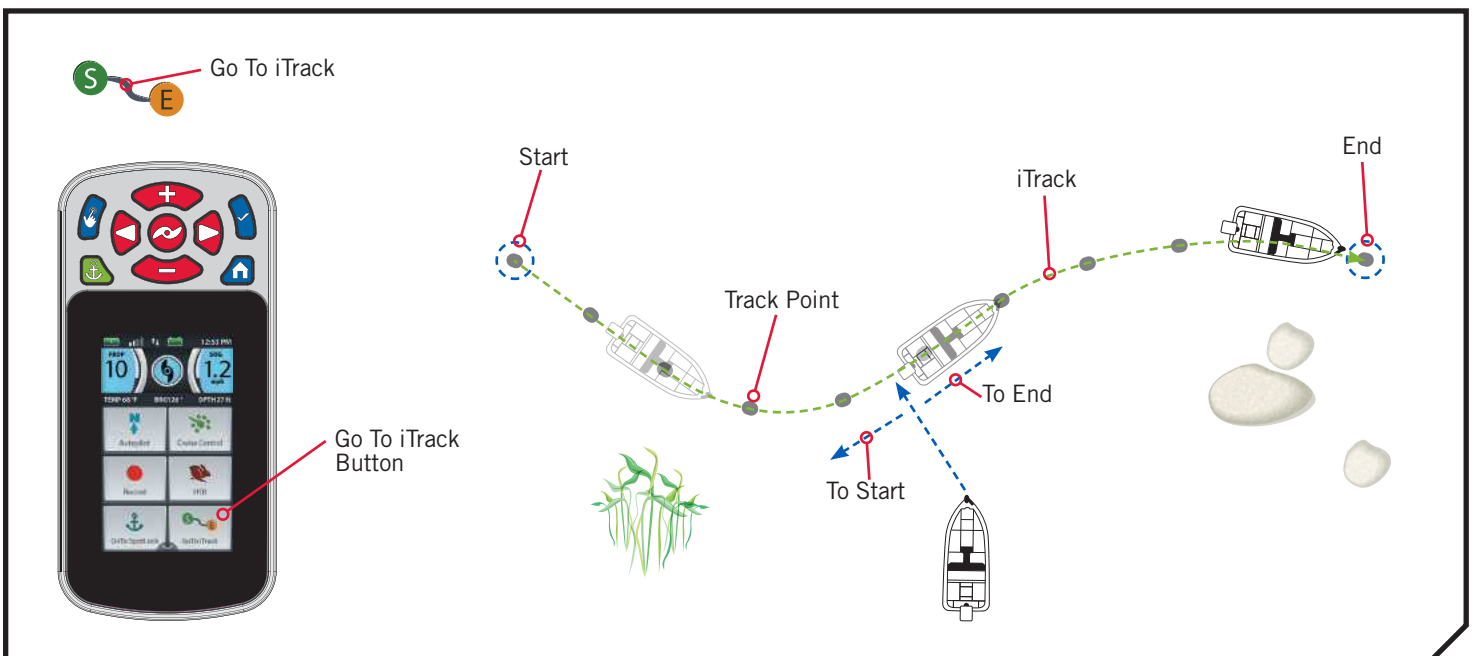
iTRACKS

UNDERSTANDING iTRACKS

The i-Pilot Link system can be used to record sets of points that make up an iTrack. When recording an iTrack, i-Pilot starts to record GPS position data in the form of Track Points. The very first Track Point recorded is called the Start, and the last point recorded is called the End. i-Pilot sees a recorded series of Track Points as an iTrack. iTracks can be recorded and navigated. When the Go To iTrack Button is pressed, an iTrack can be navigated To Start or To End. i-Pilot will navigate to the nearest Track Point and then navigate to the Track Point requested. Once the nearest Track Point is reached, it will then follow the Track Points in sequence back to either the Start or End based on the selection made. Once the Start or End is reached, i-Pilot automatically transitions to the set Arrival Mode. During iTrack navigation, i-Pilot takes control over all steering functions; speed can be manually controlled or the Cruise Control function can also be used. The motor speed must be set high enough in order to stay on the track given wind, current and other external forces.

⚠ WARNING

Watch for a turning propeller when working with iTracks. Auto Prop On is set to "off" by default. If Auto Prop On is turned "on", the propeller will automatically turn on when an iTrack is engaged, even if the engagement is accidental. A turning propeller can cause injury. If Auto Prop On is turned "off" the prop must be enabled before the boat will begin navigating an iTrack.

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> **WORKING WITH ITRACKS** ❯

❯ Recording an iTrack

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using your finger or the navigation 🔘 button to find the Record 🔴 button.

c. Select the Record 🔴 button using your finger or by pressing the Ok 🔘 button. The Record Active Band will appear in the Content Area.

> **NOTICE:** 16 iTracks are able to be recorded to memory when it is not connected to a fish finder. 50 iTracks are able to be recorded when it is connected to a fish finder.

> **NOTICE:** The motor can be stowed while recording an iTrack.

2

d. Engage the Prop and manually navigate the desired course.

e. To Save the recording, scroll through the Home Menu Buttons in the Content Area to find the Record Active Band, and select it.

f. The Record Control Screen will appear. Scroll through it and select the Stop and Save 🔴 button.

> **NOTICE:** AutoPilot and/or Cruise Control can be used while recording an iTrack.

> **NOTICE:** Spot-Lock can be engaged while recording an iTrack. If Spot-Lock is engaged, the iTrack recording will be paused. Once the Spot-Lock feature is disengaged, the iTrack recording will resume.

\\

› Go To a Saved iTrack

1

a. Manually navigate the boat to within a quarter mile of the saved iTrack.

b. Press the Home 🏠 button.

c. Scroll through the Content Area using your finger or the Screen Navigation button to find the Go To iTrack button.

d. Select the Go To iTrack button using your finger or by pressing the Ok button.

> ⚠ **WARNING**
>
> Due to safety reasons, i-Pilot will not re-engage a saved iTrack greater than a quarter mile away.

NOTICE: If there are no iTracks in range, the remote will state there are none in range.

2
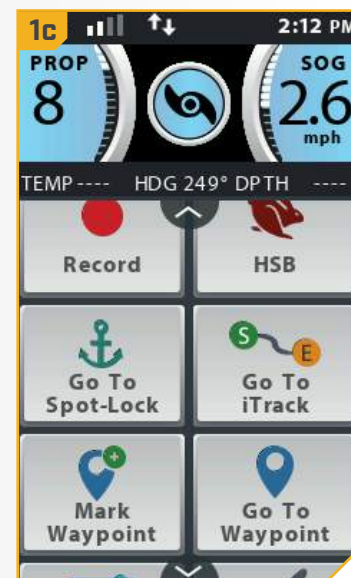
e. A list of iTracks that are within a quarter mile will appear. Scroll through the list of iTracks using either your finger or the Screen Navigation button to find an iTrack to navigate to.

f. Select the iTrack using your finger or by pressing the Ok button.

g. Decide to navigate To Start [to start] or To End [to end] and select the appropriate button.

h. The iTrack Active Band will appear in the Content Area and the boat will start to navigate the selected course.

NOTICE: If Auto Prop On is turned "off" the prop must be enabled before the boat will begin navigating an iTrack.
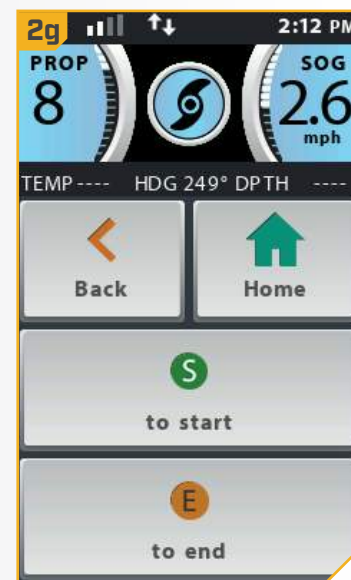
NOTICE: You are able to select an Arrival Mode for Go To iTrack by selecting the iTrack Active Band. See the "Change the Arrival Mode" section of this manual for more information.

› Disengage Go To iTrack

1

a. When Go To iTrack is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🦶 button to find the iTrack Active Band.

b. Select the iTrack Active Band using your finger or by pressing the Ok 👍 button.

c. Select the Cancel ✕ button from the iTrack Control Screen using your finger or by scrolling to it with the Screen Navigation 🦶 button and pressing the Ok 👍 button to select it.

NOTICE: Go To iTrack will also be disengaged by manually steering from the Remote or Foot Pedal.

› Reverse Go To iTrack

1

a. When Go To iTrack is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🦶 button to find the iTrack Active Band.

b. Select the iTrack Active Band using your finger or by pressing the Ok 👍 button.

c. Select the Reverse button from the iTrack Control Screen using your finger or by scrolling to it with the Screen Navigation 🦶 button and pressing the Ok 👍 button to select it.
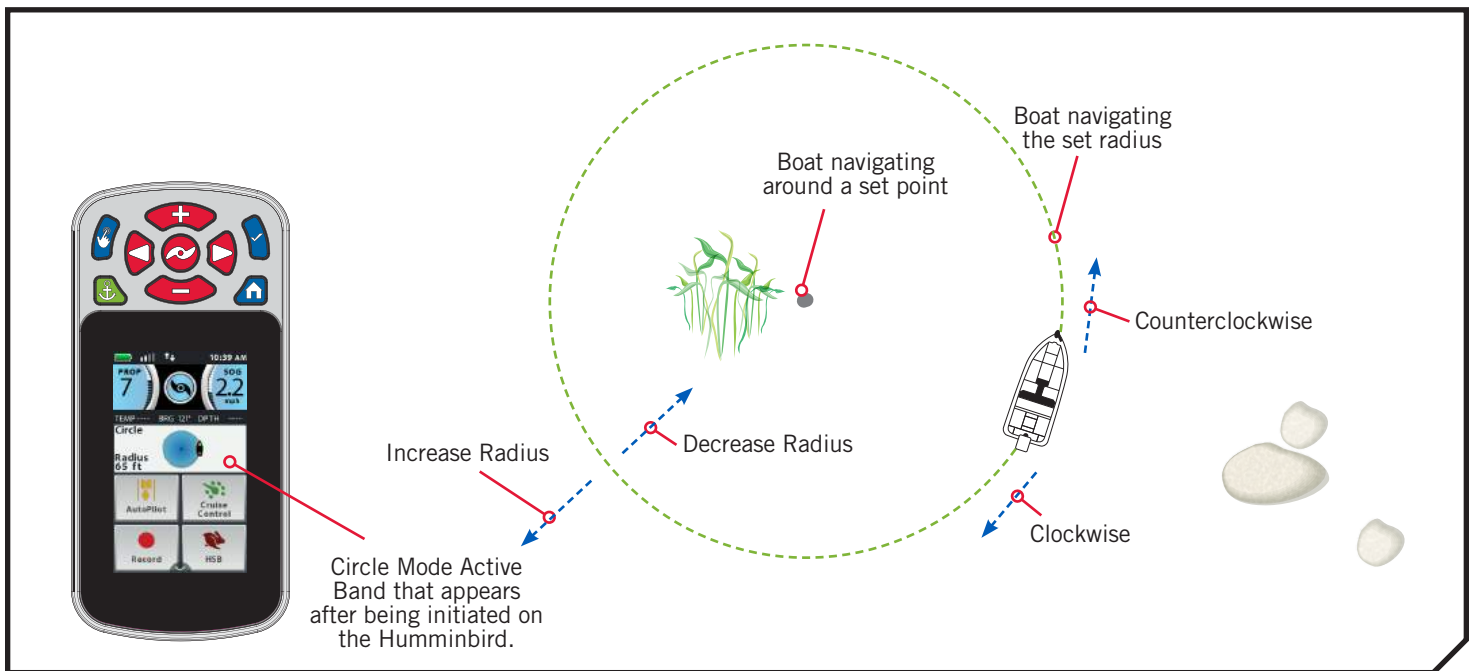
CIRCLE MODE

UNDERSTANDING CIRCLE MODE

Circle Mode uses a Humminbird fish finder to set a point to navigate around. Once a point is set, the boat can navigate either clockwise or counterclockwise around the set point in a circle. The radius of the circle can be changed from 30 to 500 feet. Circle Mode cannot be activated from the i-Pilot Link remote, but the direction of travel, radius of the circle can be adjusted, and the function can be disengaged using the i-Pilot Link remote. See the Humminbird manual to learn more about Circle Mode.

NOTICE: Circle Mode is an i-Pilot Link feature that can only be initiated from the Humminbird.

⚠ WARNING

Watch for a turning propeller when working with Circle Mode. Auto Prop On is set to "off" by default. If Auto Prop On is turned "on", the propeller will automatically turn on when Circle Mode is engaged, even if the engagement is accidental. A turning propeller can cause injury. If Auto Prop On is turned "off" the prop must be enabled before the boat will begin navigating with Circle Mode.

Boat navigating the set radius

Boat navigating around a set point

Counterclockwise

Increase Radius

Decrease Radius

Clockwise

Circle Mode Active Band that appears after being initiated on the Humminbird.

CIRCLE MODE

\\

❯ Change the Radius of Circle Mode

1

a. When Circle Mode is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Circle Mode Active Band.

b. Select the Circle Mode Active Band using your finger or by pressing the Ok 🔘 button.

c. In the Circle Mode Control Screen, find the Add 5 ⊞ button or Minus 5 ⊟ button. Select the button to move the Radius in the corresponding direction.

d. Once the desired Radius is found, press the Home 🏠 button to exit the menu.

> **NOTICE:** The radius can be set from 30 to 500 ft. Cruise Control can be used while navigating in Circle Mode.

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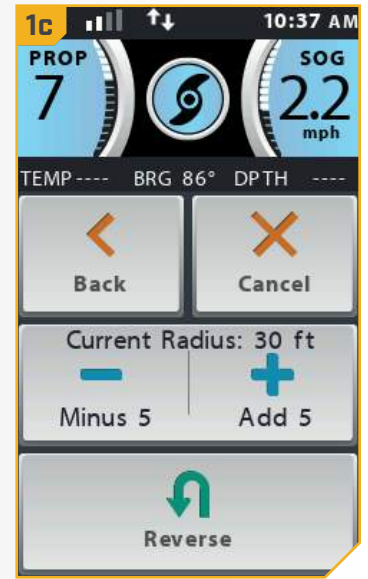
❯ Reverse Direction with Circle Mode

1

a. When Circle Mode is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Circle Mode Active Band.

b. Select the Circle Mode Active Band using your finger or by pressing the Ok 🔘 button.

c. Select the Reverse ↺ button from the Circle Mode Control Screen using your finger or by scrolling to it with the Screen Navigation 🔘 button and pressing the Ok 🔘 button to select it.

2

d. The direction of the Boat will reverse on the Circle Mode Active band.

› Disengage Circle Mode

1

a. When Circle Mode is engaged, scroll through the Content Area using either your finger or the Screen Navigation ⬡ button to find the Circle Mode Active Band.

b. Select the Circle Mode Active Band using your finger or by pressing the Ok ⬡ button.

c. Select the Cancel ☒ button from the Circle Mode Control Screen using your finger or by scrolling to it with the Screen Navigation ⬡ button and pressing the Ok ⬡ button to select it.

NOTICE: Circle Mode will also be disengaged by manually steering from the Remote or Foot Pedal.
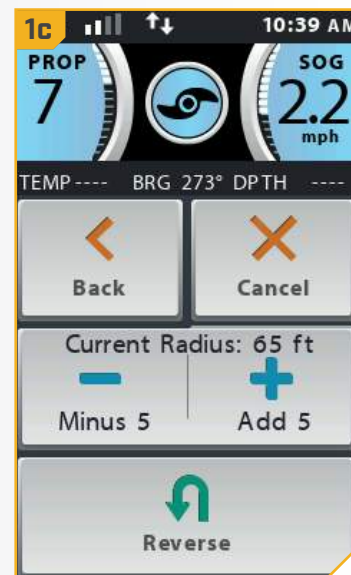
FOLLOW THE CONTOUR
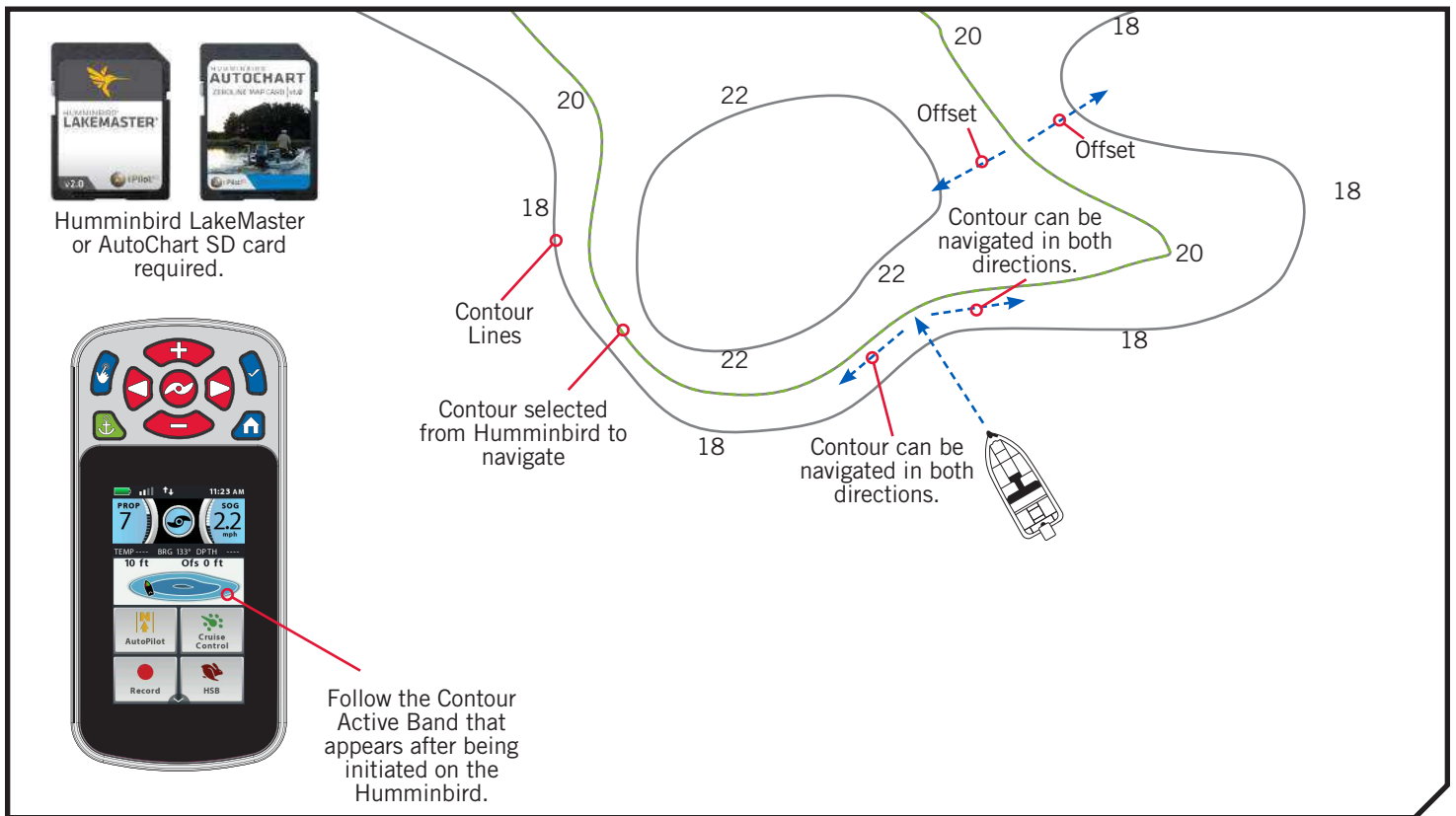
UNDERSTANDING FOLLOW THE CONTOUR

Follow the Contour allows you to navigate a contour on a Humminbird LakeMaster chart or AutoChart ZeroLine chart. When starting i-Pilot Link navigation to Follow the Contour, all other types of navigation are stopped on the Fishfinder and the Ethernet network. The boat can navigate either clockwise or counterclockwise around the contour. The Offset from the contour can range from -300 to +300 feet. Follow the Contour cannot be activated from the i-Pilot Link remote, but the direction of travel, offset, and the function can be disengaged using the i-Pilot Link remote. See the Humminbird manual to learn more about Follow the Contour. If using an AutoChart ZeroLine Map Card, see the AutoChart ZeroLine Map Card Accessory Manual for more information.

NOTICE: Follow the Contour is an i-Pilot Link feature that can only be initiated from the Humminbird. **i-Pilot compatible Humminbird LakeMaster or AutoChart SD card required.**

⚠ WARNING

Watch for a turning propeller when working with Follow the Contour. Auto Prop On is set to "off" by default. If Auto Prop On is turned "on", the propeller will automatically turn on when Follow the Contour is engaged, even if the engagement is accidental. A turning propeller can cause injury. If Auto Prop On is turned "off" the prop must be enabled before the boat will begin navigating with Follow the Contour.

Humminbird LakeMaster or AutoChart SD card required.

Contour Lines

Contour selected from Humminbird to navigate

Follow the Contour Active Band that appears after being initiated on the Humminbird.

Offset

Offset

Contour can be navigated in both directions.

Contour can be navigated in both directions.

WORKING WITH FOLLOW THE CONTOUR ❯

❯ Change the Offset with Follow the Contour

1

a. When Follow the Contour is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🔵 button to find the Follow the Contour Active Band.

b. Select the Follow the Contour Active Band using your finger or by pressing the Ok 🔵 button.

c. In the Follow the Contour Control Screen, find the Add 1 ➕ button or Minus 1 ➖ button. Select the button to move the Offset in the corresponding direction.

> **NOTICE:** When setting the Offset, the Add 1 ➕ button will move the boat to navigate to deeper water, the Minus 1 ➖ button will move the boat to shallower water.

d. Once the desired Offset is found, press the Back ◀ button or the Home 🏠 button to exit the menu.

> **NOTICE:** Cruise Control can be used while navigating with Follow the Contour.

❯ Reverse Direction with Follow the Contour

1

a. When Follow the Contour is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🔵 button to find the Follow the Contour Active Band.

b. Select the Follow the Contour Active Band using your finger or by pressing the Ok 🔵 button.

c. Select the Reverse ↩ button from the Follow the Contour Control Screen using your finger or by scrolling to it with the Screen Navigation 🔵 button and pressing the Ok 🔵 button to select it.

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❯ Disengage Follow the Contour

1

a. When Follow the Contour is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Follow the Contour Active Band.

b. Select the Follow the Contour Active Band using your finger or by pressing the Ok 🔘 button.

c. Select the Cancel ⊠ button from the Follow the Contour Control Screen using your finger or by scrolling to it with the Screen Navigation 🔘 button and pressing the Ok 🔘 button to select it.

> **NOTICE:** Manually steering the motor with the Remote or Foot Pedal will also disengage Follow the Contour.

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ROUTES

UNDERSTANDING ROUTES

Routes link two or more Waypoints together to create a path for navigation and are used in trip planning. A Route represents your intended navigation and shows the shortest path from each waypoint to the next. Navigating a Route is initiated on the Humminbird. As you travel a route, staying on the route line is the most efficient way to get to your destination, although you should always look out for obstacles not shown on the Humminbird. Navigating a Route cannot be activated from the i-Pilot Link remote, but the direction of travel can be changed, and the function can be disengaged using the i-Pilot Link remote. If you start another mode of i-Pilot navigation, navigating a Route will disengage automatically. The exception is Spot-Lock which if this is engaged, Route navigation will be paused, not disengaged. See the Humminbird manual to learn more about Routes.

NOTICE: Routes are an i-Pilot Link feature that can only be initiated from the Humminbird.

⚠ WARNING

Watch for a turning propeller when working with Routes. Auto Prop On is set to "off" by default. If Auto Prop On is turned "on", the propeller will automatically turn on when Routes are navigated, even if the engagement is accidental. A turning propeller can cause injury. If Auto Prop On is turned "off" the prop must be enabled before the boat will begin navigating Routes.
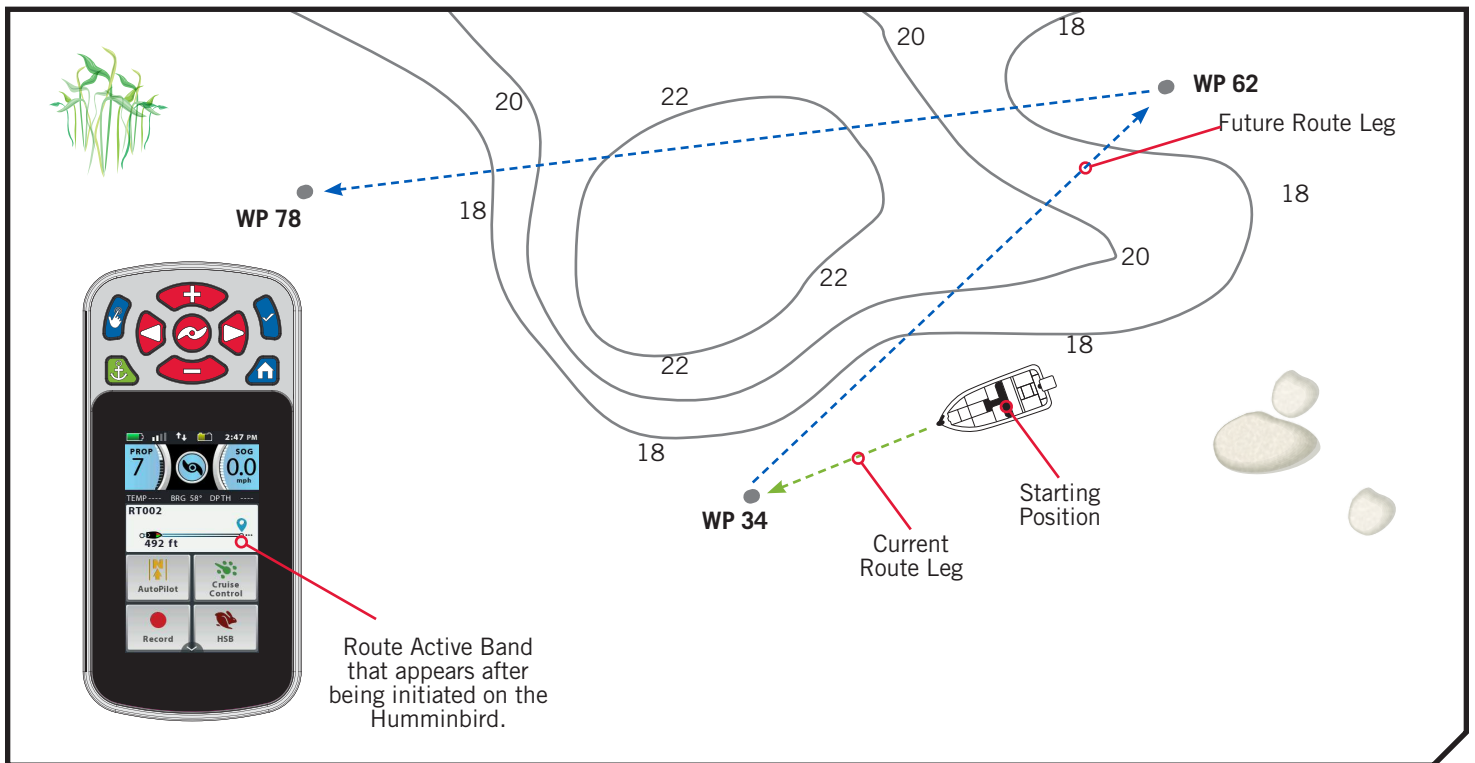
\\

> **WORKING WITH ROUTES ❯**

❯ Reverse the Direction of Route Navigation

1

a. When Route navigation is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Route Active Band.

b. Select the Route Active Band using your finger or by pressing the Ok 🔘 button.

c. Select the Reverse [Reverse] button from the Route Control Screen using your finger or by scrolling to it with the Screen Navigation 🔘 button and pressing the Ok 🔘 button to select it.

> **NOTICE:** The Humminbird can make Quick Routes or Go To a Route. To learn more about Routes, please see the Humminbird manual.

\\\

❯ Disengage Route Navigation

1

a. When Route navigation is engaged, scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Route Active Band.

b. Select the Route Active Band using your finger or by pressing the Ok 🔘 button.

c. Select the Cancel ✖ button from the Follow the Contour Control Screen using your finger or by scrolling to it with the Screen Navigation 🔘 button and pressing the Ok 🔘 button to select it.

> **NOTICE:** Manually steering the motor with the Remote or Foot Pedal will also disengage Route navigation.

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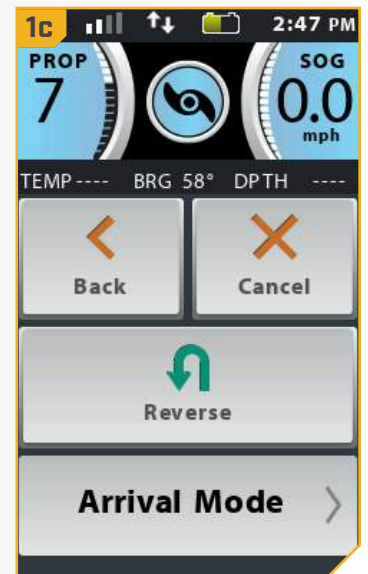
HEADING SENSOR

HEADING SENSOR FEATURES

Become familiar with the features of the Heading Sensor to maximize the capabilities it offers.

NOTICE: The Heading Sensor does not come standard with all models. It can be purchased as an accessory. To learn more about Minn Kota accessories, please visit www.minnkotamotors.com.

Screw Hole

Arrow for Placement

Pair Button/LED

Screw Hole

Power Cable
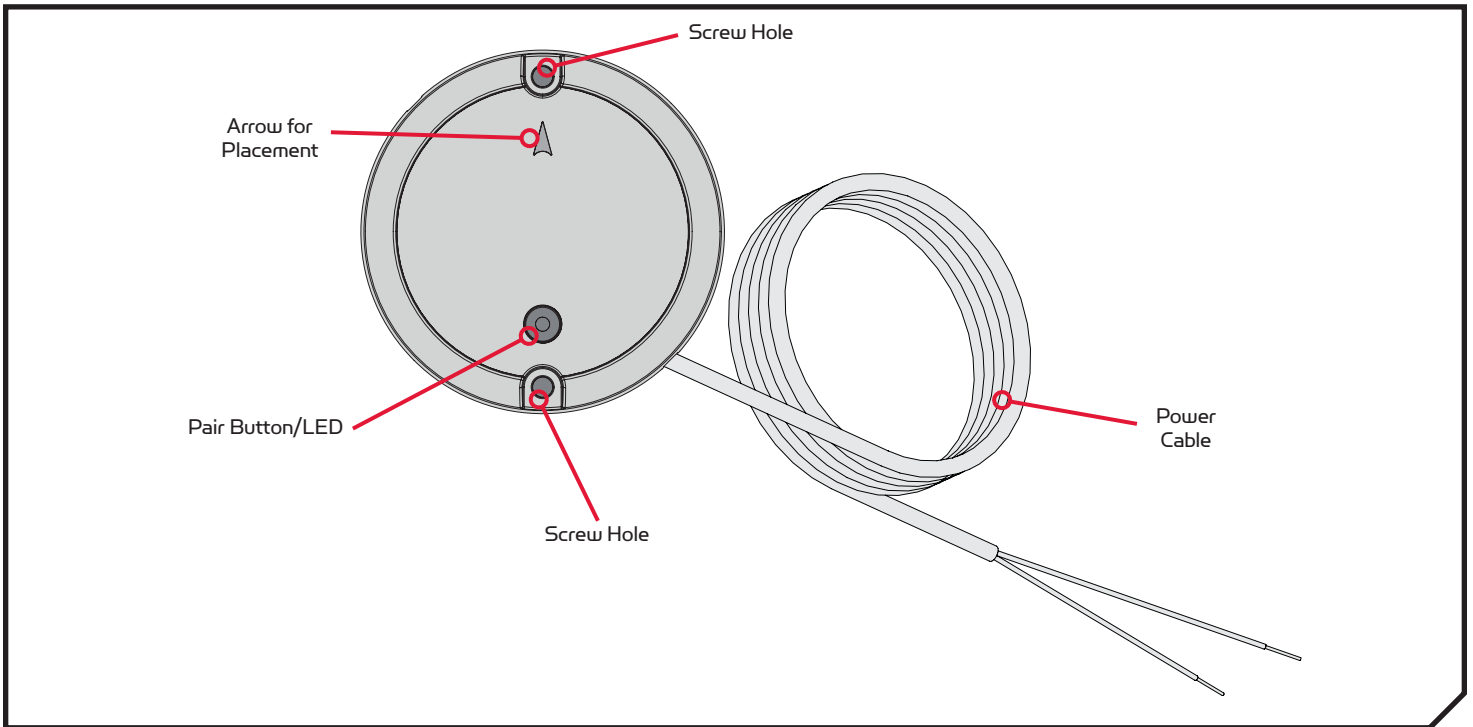
› Heading Sensor Functions

The Minn Kota Heading Sensor provides boat heading information to a Bluetooth compatible i-Pilot or i-Pilot Link equipped Minn Kota motor. It contains a compass that senses the boat's heading or orientation. The heading is used by the i-Pilot or i-Pilot Link system for navigation features such as Spot-Lock Jog. The Heading Sensor does not contain a GPS receiver and it does not change or control the orientation of the boat. The Minn Kota Heading Sensor can only communicate with other Bluetooth compatible Minn Kota products.

⚠ WARNING

The Heading Sensor should not be used as a navigational aide to prevent collision, grounding, boat damage, or personal injury. When the boat is moving, water depth may change too quickly to allow time for you to react. Always operate the boat at very slow speeds if you suspect shallow water or submerged objects.

Do not install the Heading Sensor near ferrous metals or near anything that may create a magnetic field or interference. The Heading Sensor must be installed at least 24" from magnetic or ferrous materials on the boat including the base of the motor. Installation near the motor lead wires must also be avoided due to magnetic fields being created during high current draw situations.

› Light Patterns

The Heading Sensor displays modes of operation with an LED located on the Pair Button. There are three distinct patterns that the LED will display to communicate different modes of operation. Become familiar with the modes of operation to be sure that the Heading Sensor is powered up and communicating with i-Pilot or i-Pilot Link.

HEADING SENSOR

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The three LED patterns displayed by the Heading Sensor are:

1. Power On - When the Heading Sensor is first connected to a power source, the LED will turn on for 3 seconds and then turn off.

2. Pairing - The Heading Sensor can be paired with i-Pilot. While the Heading Sensor is attempting to pair, the LED will flash on and off twice per second for up to 20 seconds. If the Heading Sensor is successfully paired, normal operation will begin. If the Heading Sensor is not paired, the LED will turn off.

3. Normal Operation - During normal operation when the Heading Sensor is connected to a power source and paired to and actively communicating with i-Pilot, the LED on the Heading Sensor will flash on and off once every 3 seconds.

INSTALLATION PARTS LIST ❯

Item / Assembly	Part #	Description	Qty.
A	2996400	HEADING SENSOR ASSEMBLY	1
1	2393400	SCREW-#8-18X1-1/2 PPH TY AB SS *STAINLESS STEEL*	2
2	✖	HEADING SENSOR	1
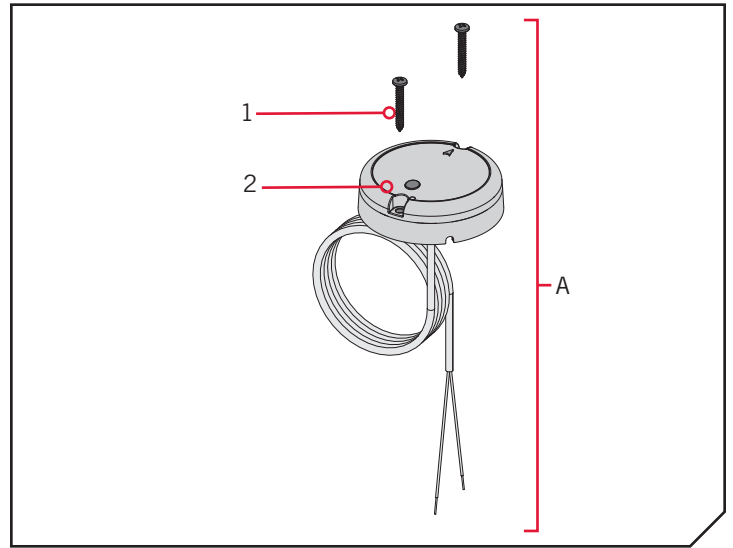
✖ *This part is included in an assembly and cannot be ordered individually.*

MOUNTING CONSIDERATIONS ❯

Before mounting your Heading Sensor, give consideration to the following:

1. The Heading Sensor contains a compass that detects a magnetic field. Do not install the Heading Sensor near ferrous metals or wires that handle large currents, such as batteries or power cables.

> ⚠ **CAUTION**
>
> The Heading Sensor can be adversely affected by magnets or large, ferrous metal objects. Do not install the Heading Sensor within 24" of these objects as they will cause interference.

2. Mount the Heading Sensor in an area that has a clear line of communication with the head of the motor that is installed with a Bluetooth compatible i-Pilot system for optimum performance.

3. Make sure the area under the mounting location is level and is clear to drill holes and installation hardware will not damage existing components below the mounting surface.

4. Test that the Power Cable that powers the Heading Sensor is long enough to reach the power source from the intended mounting location. If the cable does not reach the battery or intended power source, select a location closer to the source.

5. Mount the Heading Sensor horizontally. It should not be mounted upside down.

TOOLS AND RESOURCES REQUIRED ❯

- Drill
- 1/4" Drill Bit
- #2 Screwdriver
- 9/64" Drill Bit
- Awl or similar marking tool
- Marine-grade Silicone

INSTALLATION ❯

MOUNTING OPTIONS

There are two options to install the Heading Sensor. Determine if the Power Cable for the Heading Sensor will pass below the mounting surface.

1. **Access under the Mounting Location** - When installing the Heading Sensor with this option, the Power Cables that come from the Heading Sensor will pass through the mounting surface. Only choose this option when the cables can be accessed after they are passed through the mounting surface. Follow the instructions in the Installation for Access Under the Mounting Location section of this instruction sheet.

2. **No Access under the Mounting Location** - The Power Cables for the Heading Sensor will be routed to the side because there is no room under the mounting location for the cables to pass, or the area below the mounting location is not accessible. Follow the instructions in the Installation for No Access Under the Mounting Location section of this instruction sheet.

It is important to review the mounting considerations and test run the Power Cable before installation.

❯ Installation for Access Under the Mounting Location

1

ITEM(S) NEEDED

#2 x 1

a. Review the Mounting Considerations and then set the Heading Sensor (Item #2) flat on the selected mounting location and note the placement.

b. Lift the Heading Sensor away and mark a point with an awl or similar marking tool beneath the mounting location for the power cable to pass through the surface.

c. Using a drill with a 1/4" bit, drill a hole through the mounting location.

d. Route the power cable through the drilled hole and feed the cable all the way through until the Heading Sensor sits flat on the mounting location and the cable is completely threaded through the drill hole.

1a Heading Sensor Placement

1b Heading Sensor Placement

Marked Location

1c Heading Sensor Placement

Drilled Location

1d

Drilled Location

Power Cable
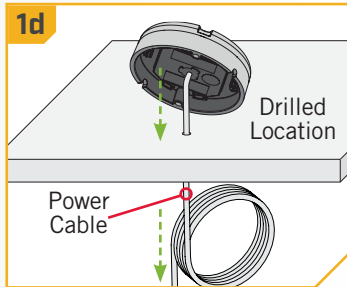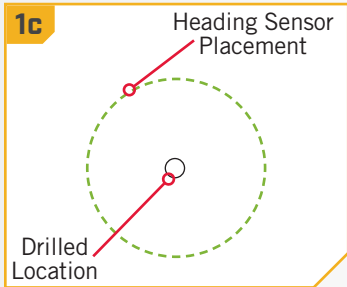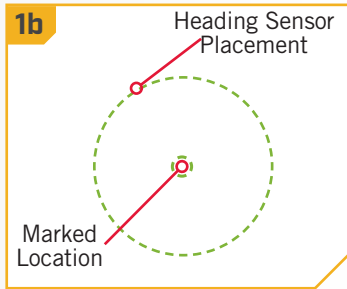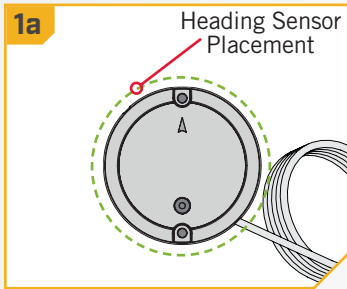
2

e. Position the sensor so that the arrow on the cover is pointed toward the front of the boat in the direction of travel. **The arrow needs to be parallel with the keel of the boat.**

⚠ CAUTION

Failure to align the Heading Sensor correctly will result in incorrect compass readings.

f. Mark the location of the two screw holes with an awl or similar marking tool.
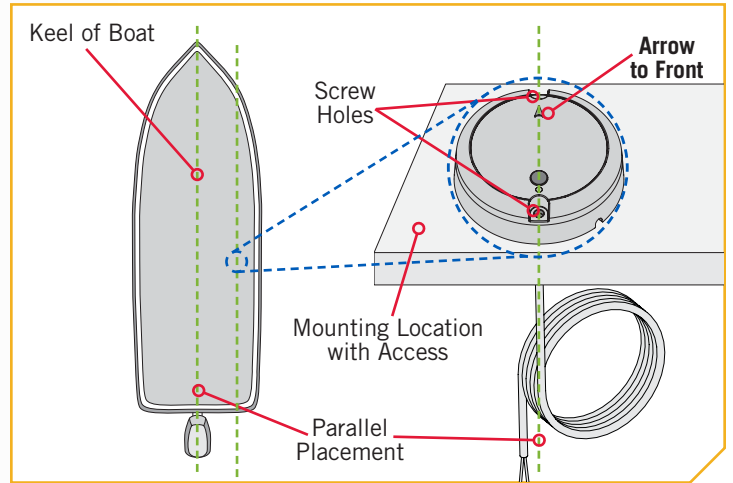
Keel of Boat
Screw Holes
Arrow to Front
Mounting Location with Access
Parallel Placement

3

g. Move the Heading Sensor to the side and drill two holes using a 9/64" drill bit on the marked locations.

Marked Location of Screw Holes
Heading Sensor Placement
Power Cable
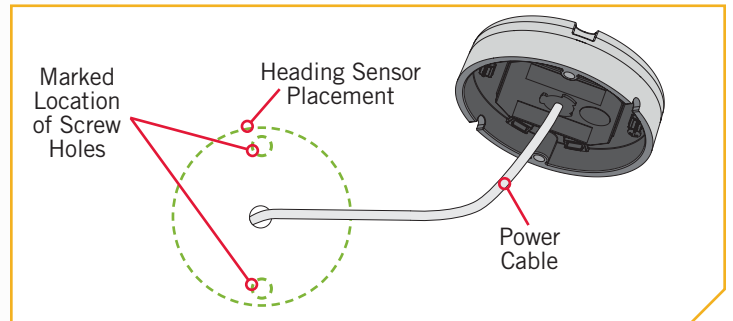
4

h. Position the Heading Sensor back in place so that the holes drilled in the mounting location line up with the holes in the Heading Sensor and the Power Cable is completely threaded. **Be sure to mount the arrow towards the front of the boat and make the alignment parallel with the keel of the boat.**

⚠ CAUTION

Failure to align the Heading Sensor correctly will result in incorrect compass readings.

Screw Holes
Arrow to Front
Keel of Boat
Mounting Location with Access
Parallel Placement
Power Cable
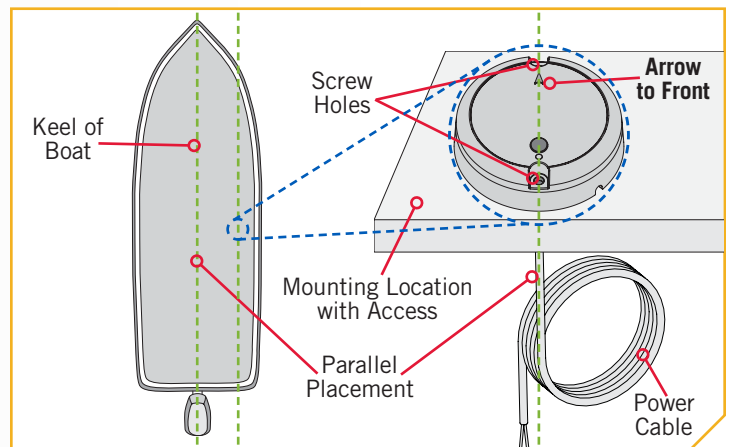
⚠ CAUTION

If the mounting surface is thin or made of a lightweight material, the mounting surface may need to be reinforced in order to support the Heading Sensor. Hand tighten the mounting screw to avoid over tightening and to prevent damage to the mounting location and Heading Sensor.

5

ITEM(S) NEEDED

#1 x 2

i.   Apply a marine-grade silicone caulk or sealant to both #8 - 18x1-1/2 screws (Item #1) as needed to protect your boat from water damage.

j.   Using a #2 Screwdriver, mount the Heading Sensor to the mounting location using the two screws. Hand tighten only.

NOTICE: If replacement screws must be used, ensure that they are high grade non-magnetic stainless steel.

5i
Screw
Screw

5j

› Installation for No Access Under the Mounting Location

1

ITEM(S) NEEDED

#2 x 1
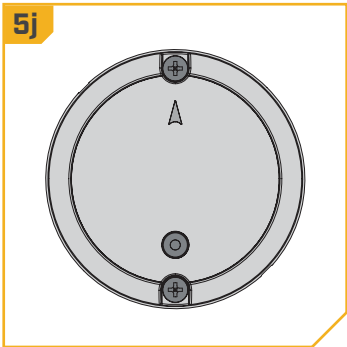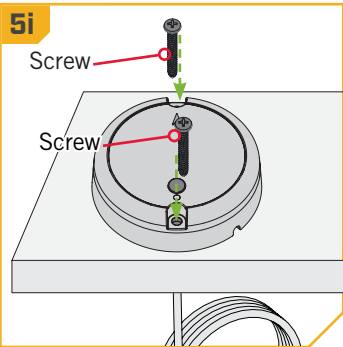
a.   Review the Mounting Considerations and then set the Heading Sensor (Item #2) flat on the mounting location and note it's placement.

b.   Route the power cable through one of the two notches in the base of the Heading Sensor. When the arrow on the Heading Sensor is pointing towards the front of the boat, the cable should exit the Heading Sensor in the direction that is closest to its intended power source.

1a
Heading Sensor Placement

1b
Notch
Power Cable to Battery
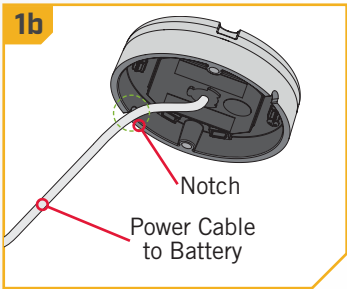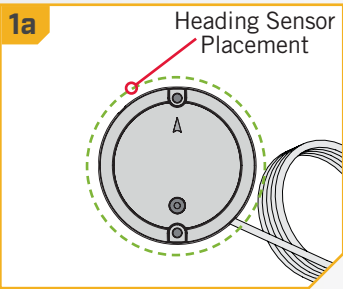
HEADING SENSOR

2

c. Double check the position of the Heading Sensor so that the arrow on the cover is pointed toward the front of the boat in the direction of travel. **The arrow needs to be parallel with the keel of the boat.**

⚠ CAUTION

Failure to align the Heading Sensor correctly will result in incorrect compass readings.

Screw Holes — Arrow to Front — Keel of Boat — Mounting Location without Access — Power Cable — Parallel Placement

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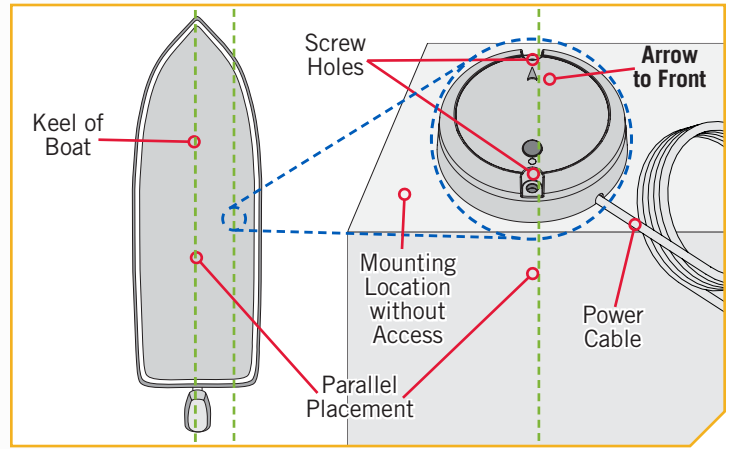
3

d. Mark the location of the two screw holes with an awl or similar marking tool.

e. Move the Heading Sensor to the side and drill two holes using a 9/64" drill bit on the marked locations.

Heading Sensor Placement — Marked Location of Screw Holes
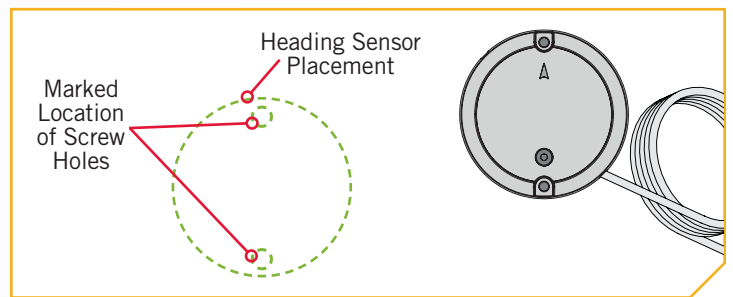
4

ITEM(S) NEEDED
#1 x 2

f. Position the Heading Sensor back in place so that the holes drilled in the mounting location line up with the holes in the Heading Sensor. **Be sure to mount the arrow towards the front of the boat and make the alignment parallel with the keel of the boat.**

g. Apply a marine-grade silicone caulk or sealant to both #8 - 18x1-1/2 screws (Item #1) as needed to protect your boat from water damage.

⚠ CAUTION

Failure to align the Heading Sensor correctly will result in incorrect compass readings.

4f — Screw Holes — Arrow to Front — Keel of Boat — Mounting Location without Access — Power Cable — Parallel Placement
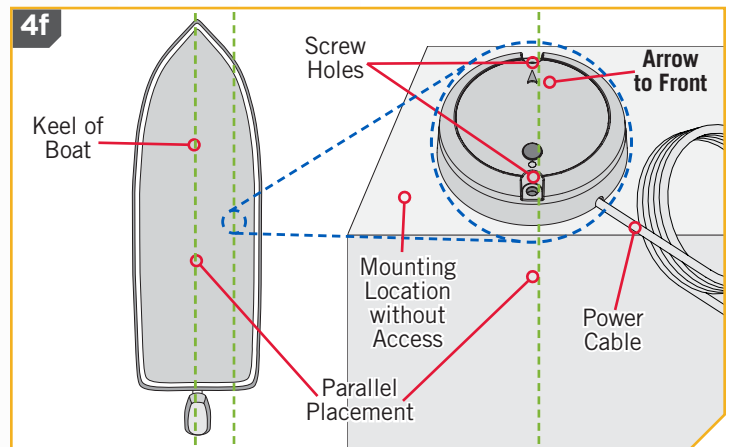
5

f.   Using a #2 Screwdriver, mount the Heading Sensor to the mounting location using the two screws. Hand tighten only.

⚠ CAUTION

If the mounting surface is thin or made of a lightweight material, the mounting surface may need to be reinforced in order to support the Heading Sensor. Hand tighten the mounting screw to avoid over tightening and to prevent damage to the mounting location and Heading Sensor.
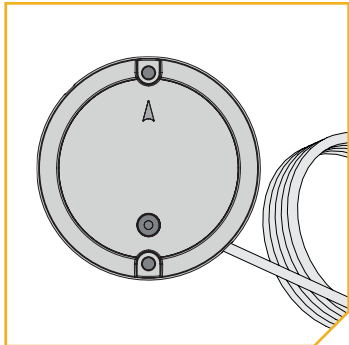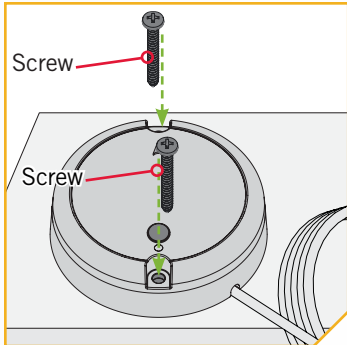
Screw

Screw

NOTICE: If replacement screws must be used, ensure that they are high grade non-magnetic stainless steel.

❯ Connecting the Heading Sensor to a Power Source

The Heading Sensor is powered by a 12-volt power source. The Heading Sensor must be set up with a one amp fuse, either in-line, or connected to a fuse panel. To connect the Heading Sensor, please follow the directions below.

1.   Connect positive (+) red lead to positive (+) power source terminal.

2.   Connect negative (−) black lead to negative (−) power source terminal.

To Heading Sensor negative (black)

Fuse

To Heading Sensor positive (red)

Neg -   Pos +

Power Source
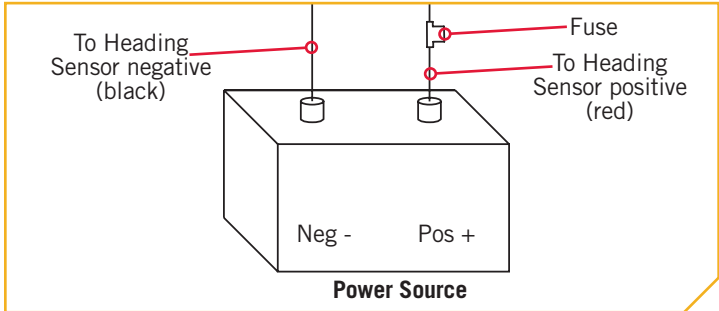
⚠ WARNING

Never connect the (+) and the (-) terminals of the same battery together. Take care that no metal object can fall onto the battery and short the terminals. This would immediately lead to a short and extreme fire danger.

HEADING SENSOR

WORKING WITH THE HEADING SENSOR ❱

❱ Pairing the Heading Sensor

Before the Heading Sensor can be paired, make sure that it has been properly installed and connected to a power source. Review the LED patterns that the Heading Sensor communicates in order to understand what mode it is in and to be able to recognize that is has successfully paired once the process is complete. To pair the Heading Sensor:

1

a. Connect the Heading Sensor to a power source. Verify that the LED on the Heading Sensor turns on for 3 seconds and then turns off.

b. Power on the trolling motor. Please see the trolling motor Owner's Manual for instructions on how to power up the trolling motor.

c. Press the Pair button on the Heading Sensor. Verify that the LED indicates it is attempting to pair.
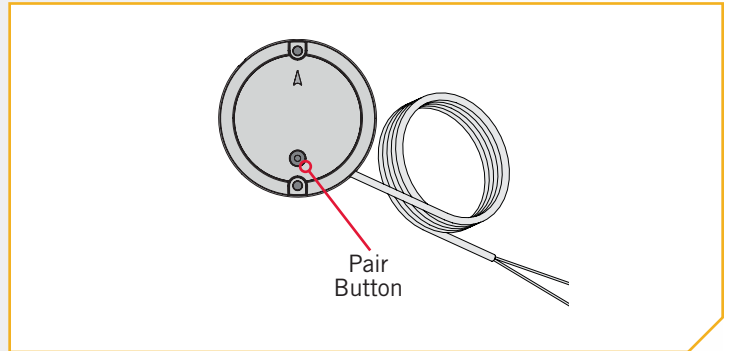
Pair Button

2

d. As quickly as possible, begin to hold the Pair button on the i-Pilot Control Head.

e. The i-Pilot Control Head will emit a beep pattern when the Heading Sensor is successfully paired. Release the Pair button on the Control Head. Watch the Heading Sensor to be sure that once it successfully pairs that it starts emitting the LED pattern for normal operation.

f. After the Heading Sensor is paired with i-Pilot or i-Pilot Link, proceed to Sensor Calibration and Sensor Offset.
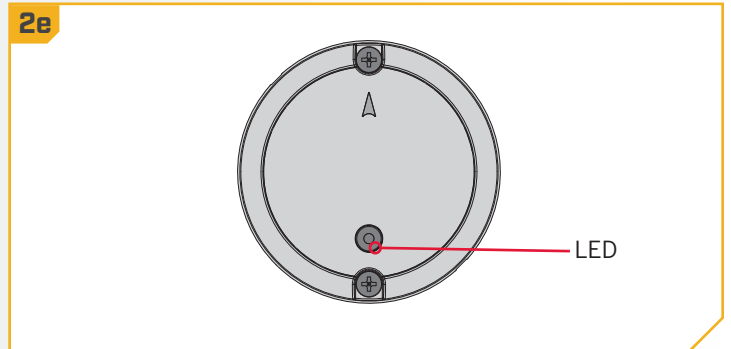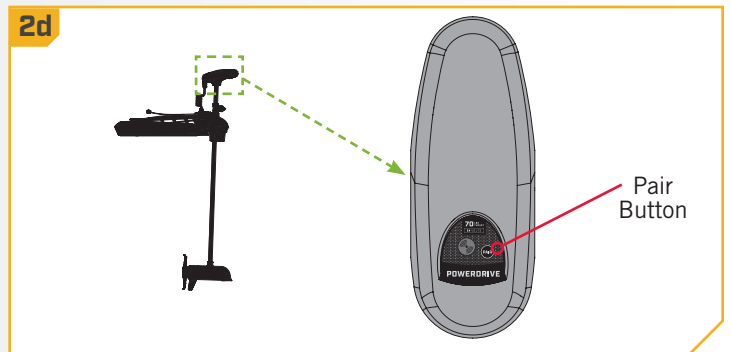
NOTICE: If battery power is lost, the Heading Sensor will not lose its Pairing to the i-Pilot System when it is powered down.

2d

Pair Button

2e

LED

› Heading Sensor Calibration

The Heading Sensor calibration is initiated using either the i-Pilot or i-Pilot Link remote. Refer to the Owner's Manual for your motor if you are unsure of the i-Pilot system that comes with your motor. The process of calibrating the Heading Sensor must occur while your boat is on the water. Heading Sensor Calibration should always be performed after the trolling motor and Heading Sensor have been mounted, but before the Heading Sensor Offset is performed. The Heading Sensor must be connected to power and paired with the Control Head of the trolling motor before beginning this process. The calibration process requires the boat to be driven in two complete circles, so plan accordingly when preparing for this process. To complete this process, read all safety warnings and follow the procedure below.

⚠ WARNING

You are responsible for the safe and prudent operation of your vessel. We have designed your Minn Kota product to be an accurate and reliable tool that will enhance boat operation and improve your ability to catch fish. This product does not relieve you from the responsibility for safe operation of your boat. You must avoid hazards to navigation and always maintain a permanent watch so you can respond to situations as they develop. You must always be prepared to regain manual control of your boat. Learn to operate your Minn Kota product in an area free from hazards and obstacles.

⚠ WARNING

Take care that neither you nor other persons approach the turning propeller too closely, neither with body parts nor with objects. The motor is powerful and may endanger or injure you or others. While the motor is running watch out for persons swimming and for floating objects. Persons whose ability to run the motor or whose reactions are impaired by alcohol, drugs, medication, or other substances are not permitted to use this motor.

1

a. Review all safety warnings and then navigate your boat to an area of the water that is free from obstructions.

b. Power up the trolling motor according to the instructions provided in the Owner's Manual. Make sure the Heading Sensor is also powered up and paired with the trolling motor.

c. Turn on the remote for your i-Pilot or i-Pilot Link system.
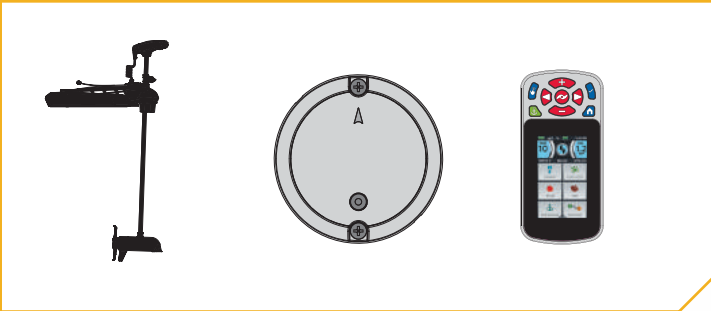
HEADING SENSOR

\\\

2

d. On the i-Pilot Link remote, press the Home 🔵 button.

e. Scroll through the Content Area using either your finger or the Screen Navigation 🔵 button to find the System 🔵 button.

f. Select the System 🔵 button using either your finger or by pressing the Ok 🔵 button to open the System Menu.

3

g. Once in the System Menu, scroll through to find the Sensor Cal [Sensor Cal] option, and select it.

h. The Sensor Cal options appear. In order to complete sensor calibration, the boat must drive in two complete circles.

i. Review all safety warnings and then follow the prompts on the display screen and drive the boat in two complete circles. Follow the on-screen prompt and select the Start 🔵 button.
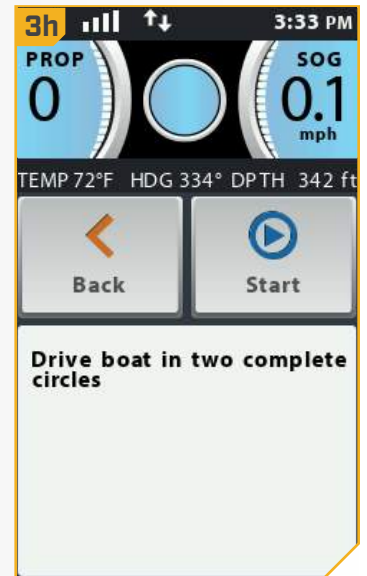
4

j. The Circle on the right side of the display screen will show how the boat has progressed through the current circle and will fill in like a pie chart as the boat progresses.

k. The left side of the Display Screen contains a counter that shows the number of complete circles that the boat has been driven and will increase from 0 to 1 and 2 as the circles are complete.

l. Once the two complete circles have been completed, the display screen will read Cal Successful. To exit the menu, select either the Back ⟨ button or the Home ⌂ button.

\\
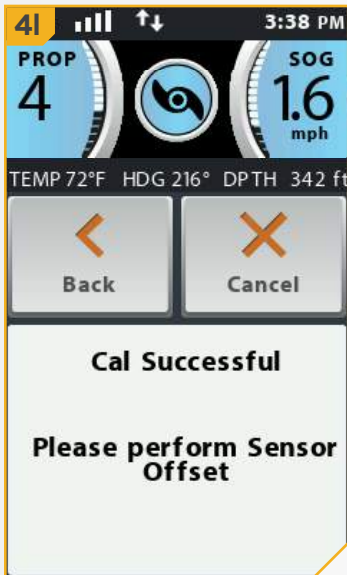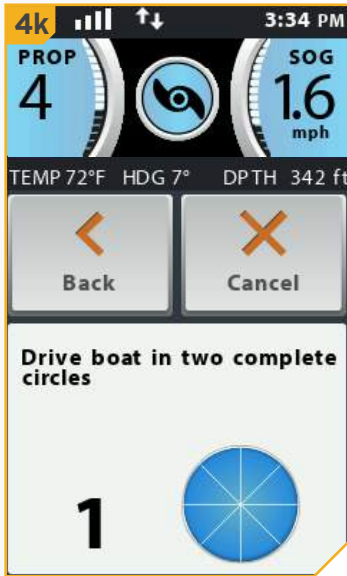
› Heading Offset

Once the Heading Sensor is calibrated, the Heading Offset needs to be set. Heading Offset is the difference between the angle of the Keel of the boat and the direction that the Heading Sensor is mounted to the deck of the boat. During installation, the Heading Sensor was installed to be as parallel to the Keel of the boat as possible. If the boat and Heading Sensor are perfectly parallel and pointing in exactly the same direction, the Offset will be a perfect 0° degrees. Knowing that installations are never perfect, the Heading Offset can be set on the i-Pilot Link remote to compensate for the difference between the two. Heading Offset has the ability to correct the difference in measurement in a range between +30° and -30° degrees.

1

a. On the i-Pilot Link remote, press the Home ⌂ button.

b. Scroll through the Content Area using either your finger or the Screen Navigation button to find the System button.

c. Select the System button using either your finger or by pressing the Ok button to open the System Menu.

2

d. Once in the System Menu, scroll through to find the Sensor Offset Sensor Offset option, and select it.

e. The Sensor Offset options appear.

f. Follow the on-screen prompts. Turn the motor so that it is pointing forward and parallel with the Keel of the boat.

g. If the current Offset is greater than the allowable range, the Offset cannot be recorded.
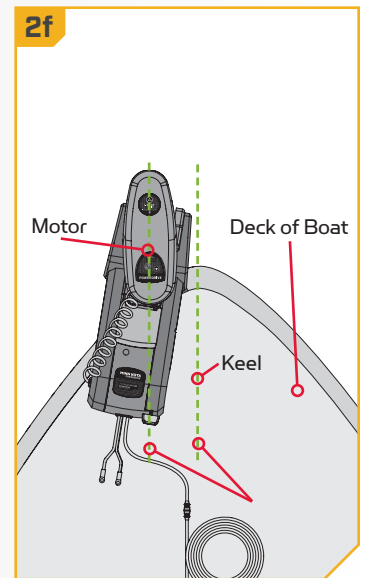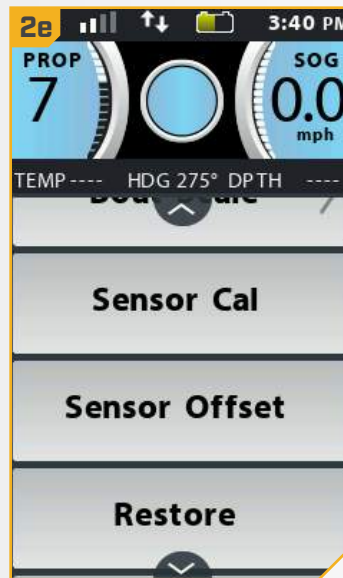
3

h. Once they are parallel, select the Set ⊙ button. Once set, the Offset on the bottom right of the Display Screen will update. The Sensor Offset will automatically adjust. In the event of an error, correct the Offset to fit within the tolerance allowed.

i. Press the Home ⌂ button to exit the menu.
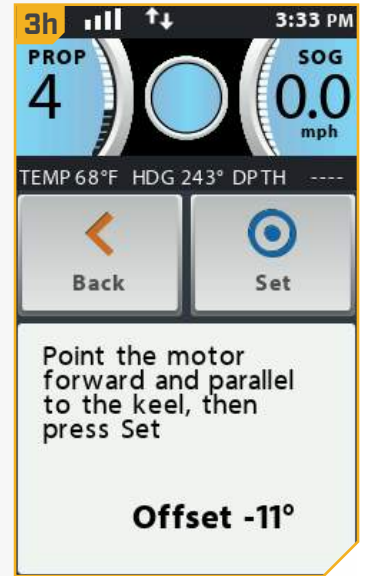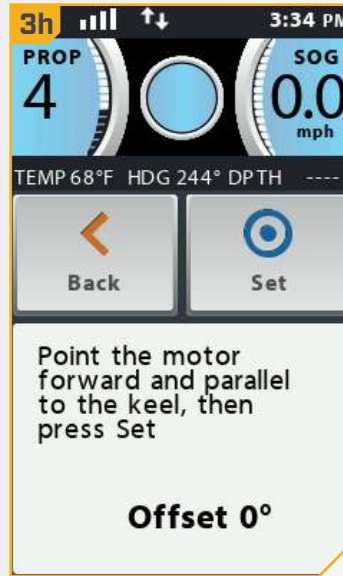
MOTOR CONTROLS

› To Toggle the Prop Auto On

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Options ▤ button.

c. Select the Options ▤ button using either your finger or by pressing the Ok 🔘 button to open the Options Menu.

d. Once in the Options Menu, scroll through to find the Prop Auto On [Prop Auto On ▢] option.

2

e. By default, the Prop Auto On is toggled "off".

f. To toggle the Prop Auto On, press the Prop Auto On [Prop Auto On ▢] option. The Toggle will turn green to indicate Prop Auto on is turned "on".

NOTICE: When the box next to Prop Auto ON is green, the prop will turn "on" when navigation features are used. By default the toggle is "off"

⚠ WARNING

When the Prop Auto On is toggled "on", the prop will turn on when navigation features are used. Navigation features include working with iTracks and AutoPilot. Be sure that the prop is clear from obstructions and hazards when using navigation features.

NOTICE: Prop Auto On is not the same as the Prop ON/OFF button. Prop Auto On will affect navigational features. The Prop ON/OFF button refers to the prop status during normal use. The Prop Auto On does not affect the operation of Prop ON/OFF.

NOTICE: Prop Auto On does not affect the Prop when Cruise Control is being used, or when High Speed Bypass is engaged. If Prop Auto On is not working as expected, check the motor speed. The propeller will turn at the current speed setting when Prop Auto On is engaged. If the Prop Auto on feature turns the prop on, and the propeller is not turning, the speed may be set to 0.

› Adjusting Boat Scale

Ideal installation for a trolling motor is to have the proper amount of thrust for the size of the boat the trolling motor is being installed on. If the motor thrust is not properly matched to the boat size, Boat Scale can be used to compensate for the mis-match. The default is zero, assuming that the boat and trolling motor thrust are properly matched. For an installation where the motor thrust is undersized for the boat, increase the Boat Scale. For an installation where the motor thrust is oversized for the boat, decrease Boat Scale.

Thrust requirements are determined by the size and weight of your boat. Minn Kota suggests selecting a trolling motor with at least 2 lbs. of thrust for every 100 lbs. of boat weight when the boat is fully loaded with fuel, people, tackle, etc. This guide is established under normal lake fishing conditions and should be used as a general guide to determine how ideally the thrust of your trolling motor is matched to the weight of your boat.

Boat Weight in Pounds	Suggested MINIMUM Trolling Motor Size in Pounds of Thrust	Voltage	Max Boat Length
1,500 or below	30	12	14'
2,000	40 - 45	12	17' - 18'
2,500	50 - 55	12	20' - 21'
3,000 - 3,500	70	24	23'
4,000	80	24	25'
4,500 - 5,000	101 - 112	36	25'

1

a.   Press the Home ⌂ button.

b.   Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the System ⚙ button.

c.   Select the System ⚙ button using either your finger or by pressing the Ok 🔘 button to open the System Menu.

\\

2

d. Once in the System Menu, scroll through to find the Boat Scale [Boat Scale] option and select it.

e. The Boat Scale options appear. Select one of the five Boat Scales, either "+2" [+2], or "+1" [+1], "0" [0], "-1" [-1], or "-2" [-2].

f. The circle to the right of the selected Boat Scale will be colored in green when selected.

\\

› Deploying the Motor ♦

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your On-Screen Navigation button to find the button.

c. Select the button using either your finger or by pressing the Ok button to open the Ulterra Menu.

NOTICE: The Ulterra button can only be found in the Content Area with the Home Control Buttons on i-Pilot Link systems on an Ulterra motor. Certain Home Screen Buttons may be locked out while the motor is stowed because those functions require the motor to be deployed to operate.

♦ *Only available with Ulterra.*

\\\

2

d. Once in the Ulterra Menu, find the Deploy ⚓ button and select it. The Deploy ⚓ button requires a double press to engage.

> ⚠ **WARNING**
>
> As soon as the Deploy button is selected, the motor will automatically deploy. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is stowed and being deployed to prevent accidental contact with the rotating propeller.

e. The Ulterra motor will deploy. While the Motor is deploying, it is possible to pause the action. To pause the action, find the Pause ❙❙ button and select it.

f. To resume the Deploy action, select the Deploy ⚓ button.

g. If the Motor continues, it will complete the deploy process and normal motor operation will follow.

2d — Motor Stowed — TEMP 199 °F BRG 359° DPTH 9999 km — Back / Deploy

2e — Motor Deploying — TEMP 199 °F BRG 359° DPTH 9999 km — Pause / Stow

2f — Motor Paused — TEMP 199 °F BRG 359° DPTH 9999 km — Deploy / Stow

2g — PROP 7 — SOG 0.0 mph — TEMP ---- HDG 269° DPTH ---- — Back / Stow / Up / Down
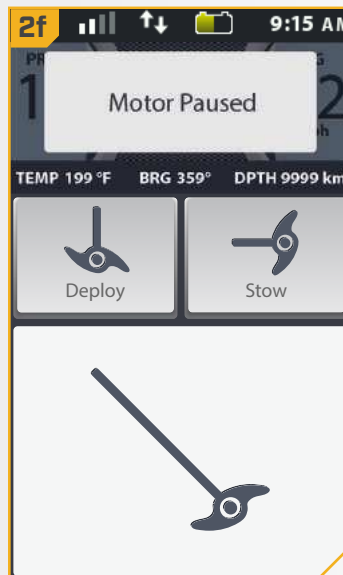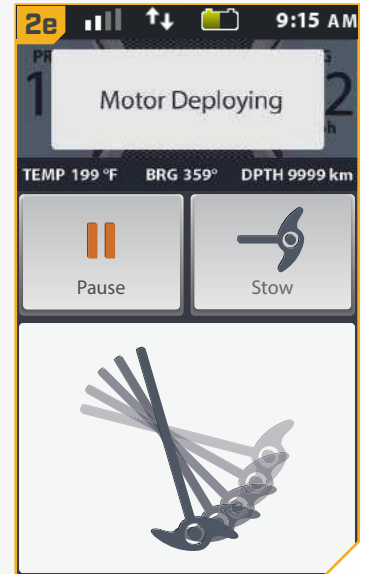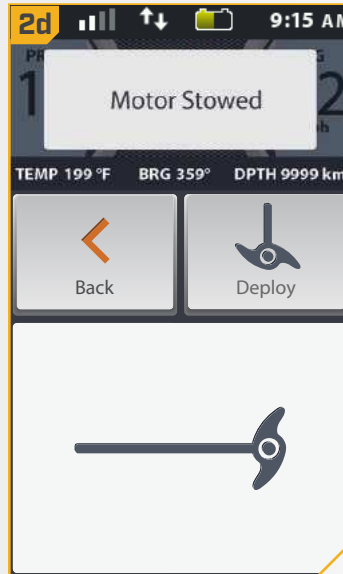
› Stowing the Motor ♦

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation button to find the Ulterra button.

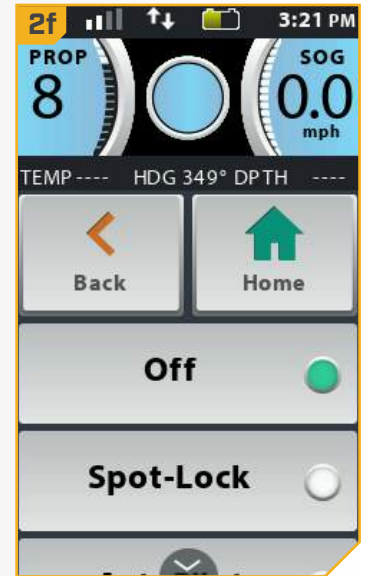c. Select the Ulterra button using either your finger or by pressing the Ok button to open the Ulterra Menu.

> **NOTICE:** The Ulterra button can only be found in the Content Area with the Home Control Buttons on i-Pilot Link systems on an Ulterra motor. The motor can only be stowed when it is currently deployed.

2

d. Once in the Ulterra Menu, find the Stow button and select it.

> **NOTICE:** The Stow button can only be found when the motor is deployed.

⚠ WARNING

As soon as the Stow button is selected, the motor will automatically stow. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is being stowed to prevent accidental contact with the rotating propeller.

e. The Ulterra motor will stow. While the Motor is stowing, it is possible to pause the action. To pause the action, find the Pause button and select it.
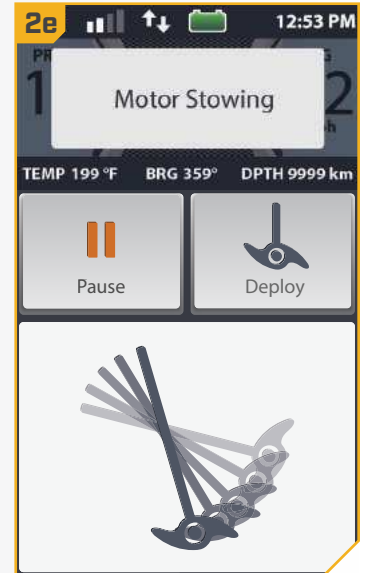
♦ *Only available with Ulterra.*

3

f. To resume the Stow action, select the Stow ⚡ button.

g. If the Motor continues, it will complete the Stow process and normal motor operation will follow.
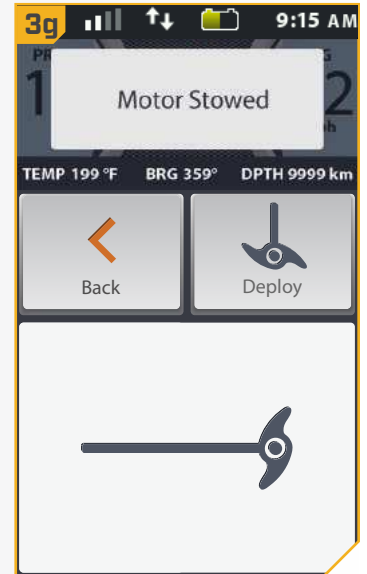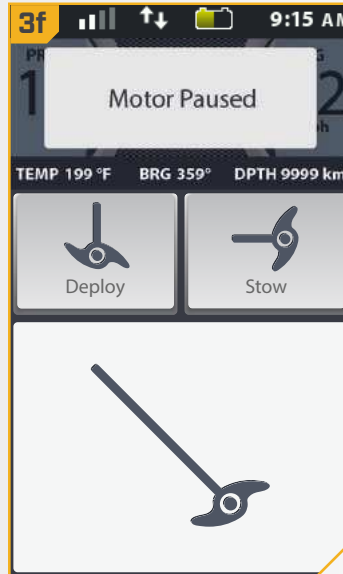
› Adjusting Trim ♦

1

a. Make sure that the motor is deployed, and then press the Home ⌂ button.

b. Scroll through the Content Area using either your finger or the Screen Navigation ⬡ button to find the ⚡ button.

c. Select the ⚡ button using either your finger or by pressing the Ok ⬢ button to open the Ulterra Menu.

♦ *Only available with Ulterra.*

MOTOR CONTROLS

2

d. Once in the Ulterra Menu, find the Up ⬆ button or Down ⬇ button. Trimming up will raise the motor and trimming down will lower the motor. Find the button for the desired direction and select it.

> ## ⚠ WARNING
>
> As soon as the Up ⬆ button or Down ⬇ button is selected, the motor will automatically trim. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is being trimmed to prevent accidental contact with the rotating propeller.

e. When the motor has reached its highest trim limit, the Prop will be locked out and the Up ⬆ button will be disabled. The Prop will stay locked out even when the Ulterra Menu has closed and the motor has not been trimmed down. When the Prop is locked out and the upper trim limit is reached, certain Home Screen Buttons will be locked out until the trim is lowered.

f. When the lower trim limit is reached the Down ⬇ button will be disabled.
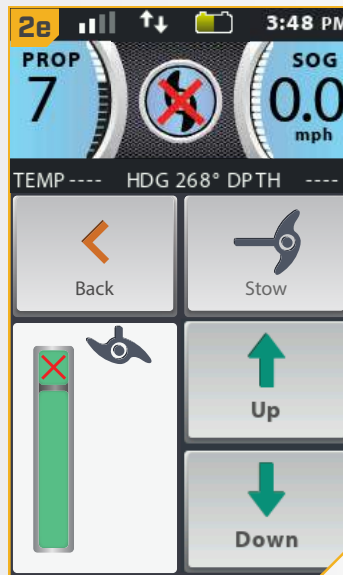
❯ Change the Arrival Mode

The Arrival Mode is a setting that helps to control what i-Pilot Link does once certain navigation modes are complete. Arrival Mode affects Go To functions for iTracks, Waypoints and Routes. Arrival Mode also affects navigating Routes. The Arrival Mode will take over once the navigational feature has completed. i-Pilot Link has four Arrival Modes:

1. Off - Once the boat has completed navigating the iTrack, the Prop will turn off. Off is the default Arrival Mode.
2. Spot-Lock - After the boat has completed navigating the iTrack, the system will go into Spot-Lock at the point where the navigation is completed.
3. AutoPilot - Once the boat has completed navigating the iTrack, it will continue navigating in AutoPilot in the final direction the boat was navigating.
4. Auto Deploy Talon - Available as an option only when the i-Pilot System is paired with a Talon. After the boat has completed navigating, the system will deploy the Talon. If i-Pilot is paired with two Talons, the action to Auto Deploy Talon will control both Talons.

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Options ▤ button.

c. Select the Options ▤ button using either your finger or by pressing the Ok 🔘 button to open the Options Menu.

NOTICE: Arrival Modes affect iTracks, Routes and Waypoints. Changing the Arrival Mode will also be an option when selecting the Active Band for any navigational features that the Arrival Mode can be used on.

MOTOR CONTROLS

\\

2

d. Once in the Options Menu, scroll through to find the Arrival Mode [Arrival Mode] option, and select it.

e. The Arrival Mode options appear. Select either "Off" [Off], "Spot-Lock" [Spot-Lock], "AutoPilot" [AutoPilot] or "Talon Deploy" [Deploy Talon]. Once the desired option is selected, the circle to the right of the selected Arrival Mode will be colored in green.

f. To exit the menu, select either the Back [<] button or the Home [🏠] button.

\\

TALON CONTROLS

❯ Deploying the Talon(s)

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon 🔲 button.

> **NOTICE:** The Talon 🔲 button can only be found in the Content Area with the Home Control Buttons on i-Pilot Link systems paired with a Talon.

c. Select the Talon 🔲 button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

d. Once in the Talon Menu, find the Down ⌄ button, and select it. **The Down ⌄ button requires a double press to engage.** The Talon will deploy.

⚠ WARNING

Take care that neither you nor other persons approach the Talon too closely, while operating, neither with body parts nor with objects. The Talon is powerful and may endanger or injure you or others. While the Talon is operating, watch out for persons swimming and for floating objects. Persons who lack the ability to run the Talon or whose reactions are impaired by alcohol, drugs, medication, or other substances are not permitted to use this product.

> **NOTICE:** To deploy the Talon, double press the Down ⌄ button. The remote will not recognize a double press that is too fast or too slow.

> **NOTICE:** You do not need to press and hold the button to keep the Talon deploying. The Talon will automatically continue to deploy when the button is pressed until it has reached its full deployment length, received input to stop or completes anchoring.

\\

2

e. While the Talon is deploying, it is possible to pause the action. To pause the action, find the Pause ⏸ button and select it.

f. To resume deploying the Talon, select the Down ⌄ button.

g. Once the deploying anchor gets to its full length of travel or comes in contact with the bottom, it will go through an anchoring sequence determined by the current Mode and then stop.

> ## ⚠ CAUTION
>
> The Talon is equipped with a Deployment Notification Alarm. The Alarm is needed to comply with warranty requirements and when properly installed the alarm will only sound when the ignition key is turned on when the Talon is not fully retracted. Boat control may be affected by a deployed Talon. Take note of the Alarm, and always watch to make sure that the Talon is fully retracted while the boat is operating.

NOTICE: Unless the Talon Control setting on the i-Pilot Link Remote is set to Right or Left, the remote will control both Talons when deploying. Be mindful of which Talon(s) is selected when deploying them.

\\

❯ Retracting the Talon(s)

1

a. Press the Home ⌂ button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon ⟨TALON⟩ button.

> **NOTICE:** The Talon ⟨TALON⟩ button can only be found in the Content Area with the Home Control Buttons on i-Pilot Link systems paired with a Talon. If the remote is already displaying the Talon Menu, pressing the Home button once will bring the remote to the top of the screen, pressing it twice will return to the Home Control Buttons.

c. Select the Talon ⟨TALON⟩ button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

2

d. Once in the Talon Menu, find the Up ⌃ button, and select it. The Talon will retract.

e. While the Talon is retracting, it is possible to pause the action. To pause the action, find the Pause ❚❚ button and select it.

f. To resume retracting the Talon, select the Up ⌃ button.

g. Once the retracting anchor on the Talon gets to its fully retracted state, it will stop.

⚠ **CAUTION**

Be sure that the Talon is clear of obstructions and persons while retracting. The spaces between the 3 stages of the Talons can create a pinch point. Do not come in contact with the Talon while it is retracting to avoid the pinch point.

NOTICE: Unless the Talon Control setting on the i-Pilot Link Remote is set to Right or Left, the remote will control both Talons when retracting. Be mindful of which Talon(s) is selected when retracting them.

NOTICE: You do not need to press and hold the Up ⌃ button to keep the anchor retracting. The Talon will automatically continue to retract when the button is pressed until the Talon is either fully retracted or receives input to stop.

TALON CONTROLS

❯ Toggle the Talon Anchor Mode

Toggle the Anchor Mode on the i-Pilot Link Remote when the water or anchoring conditions change to fit your anchoring needs.

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon TALON button.

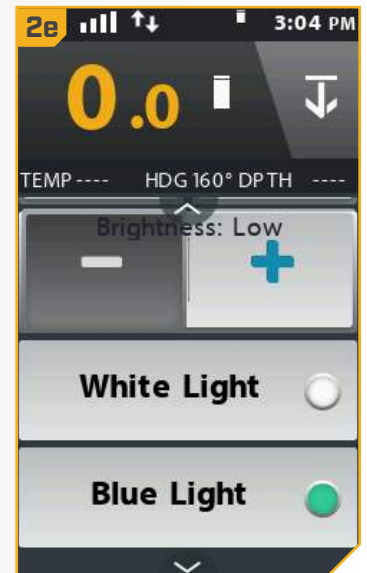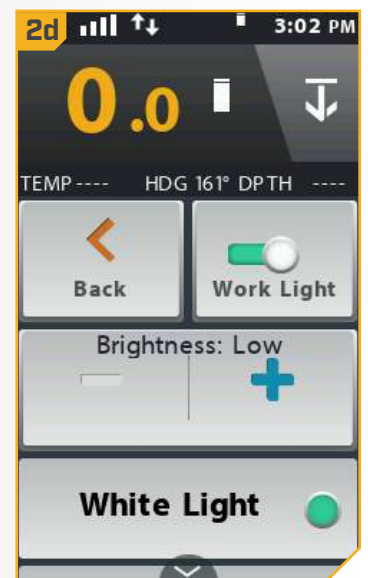c. Select the Talon TALON button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

2

d. Once in the Talon Menu, find the Anchor Mode button, and select it. This opens the Anchor Mode Menu.

e. Select one of the three Anchor Modes, either "Standard" Standard, "Rough Water" Rough Water, or "Soft Bottom" Soft Bottom.

f. The circle to the right of the selected Anchor Mode will be colored in green when selected.

g. To exit the menu, select either the Back button or the Home button.

> **NOTICE:** When the i-Pilot System is paired with two Talons, toggling the Anchor Mode on the i-Pilot Remote for one Talon will toggle the Anchor Mode for both Talons.

> **NOTICE:** Read the "Using the Talon" section of the Talon Owner's Manual to learn more about Modes.

› Toggle the Work Light

⚠ WARNING

The Work Light on the Talon is not intended for navigational purposes. The Work Light does not replace or act as a substitute for proper navigation lighting of your vessel. Failure to properly light your boat may cause harm or serious injury.
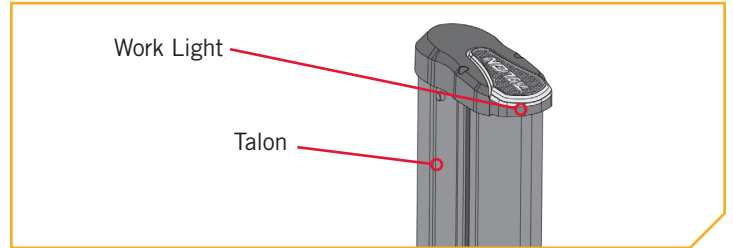
Work Light
Talon

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🎮 button to find the Talon 𝒯𝒜𝐿𝒪𝒩 button.

c. Select the Talon 𝒯𝒜𝐿𝒪𝒩 button using either your finger or by pressing the Ok 🎮 button to open the Talon Menu.

2

d. Once in the Talon Menu, find the Talon Work Light button, and select it. This opens the Talon Work Light Menu.

d. Once in the Talon Work Light Menu, scroll through to find the Work Light button.

e. To toggle the Work Light, press the Work Light button. The Toggle will turn green to indicate the Work Light is turned "on".

f. To exit the menu, select either the Back button or the Home button.

> **NOTICE:** When the i-Pilot System is paired with two Talons, toggling the Work Light on the i-Pilot Link Remote for one Talon will toggle the Work Light for both Talons.

❯ Toggle the Work Light Color

When the Work Light is turned on, the LEDs will be either white or blue. The color of the Work Light can be changed from the Talon Work Light Menu.
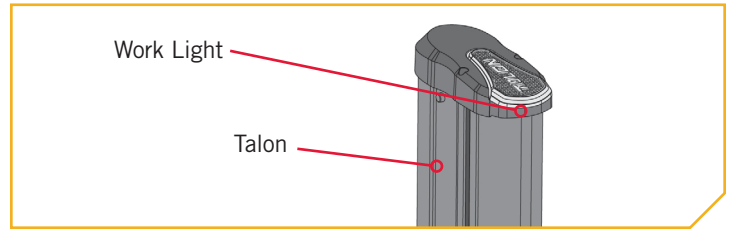
Work Light

Talon

1

a. Press the Home ⌂ button.

b. Scroll through the Content Area using either your finger or the Screen Navigation button to find the Talon ⟨TALON⟩ button.

c. Select the Talon ⟨TALON⟩ button using either your finger or by pressing the Ok button to open the Talon Menu.

> **NOTICE:** When the i-Pilot Link System is paired with two Talons, toggling the Work Light Color on one Talon will toggle the Work Light Color on both.

1a PROP 0 SOG 0.0 mph

TEMP ---- HDG 341° DPTH ----

AutoPilot | Cruise Control
Record | HSB
Go To Spot-Lock | Go To iTrack

2:45 PM

Options | System
Ulterra | TALON
Lock Keys

2

d. Once in the Talon Menu, find the Talon Work Light button, and select it. This opens the Talon Work Light Menu.

e. Scroll through the Work Light Menu and select one of the two Work Light colors, either "White Light" ⟨White Light⟩, or "Blue Light" ⟨Blue Light⟩.

f. The circle to the right of the Work Light color will be colored in green when selected.

g. To exit the menu, select either the Back ⟨<⟩ button or the Home ⌂ button.

> **NOTICE:** If the Work Light is toggled to the "off" position, it will not be possible to select either the White Light ⟨White Light⟩ or Blue Light ⟨Blue Light⟩ options.

2d 0.0 2:46 PM

TEMP ---- HDG 158° DPTH ----

Anchor Mode | i-Pilot
Active Talon | Talon Work Light
Talon Options | Talon System

2e 0.0 3:04 PM

TEMP ---- HDG 160° DPTH ----

Brightness: Low
White Light ○
Blue Light ●

❯ Adjust the Work Light Brightness

The Work Light on the Talon has a high - medium - low brightness setting of white LEDs and blue LEDs. When the Work Light is turned on, the LEDs will be either white or blue, and then an intensity setting can be selected.
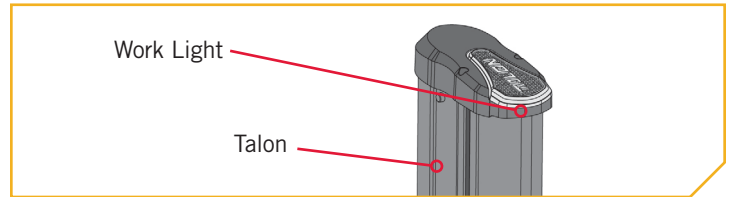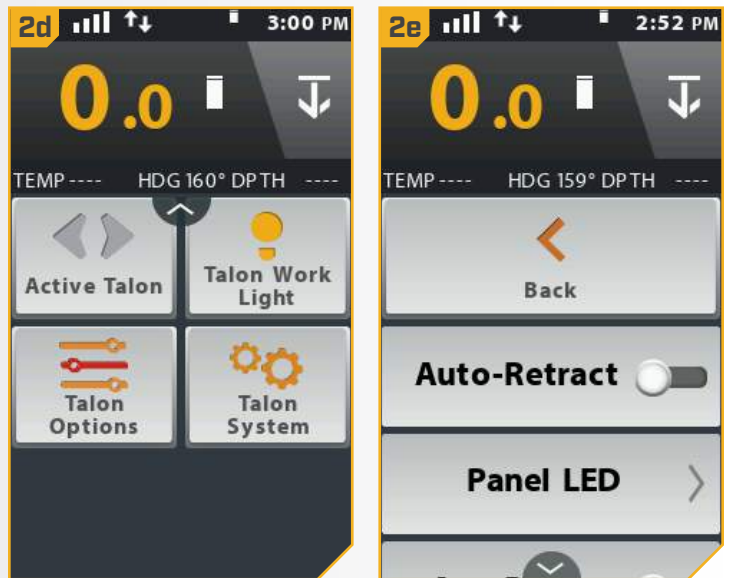
Work Light

Talon

1

a. Press the Home ⌂ button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon TALON button.

c. Select the Talon TALON button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

> **NOTICE:** When the i-Pilot Link system is paired with two Talons, adjusting the Work Light Intensity on one Talon will adjust the Work Light Intensity on both.

2

d. Once in the Talon Menu, find the Talon Work Light 🔘 button, and select it. This opens the Talon Work Light Menu.

e. With the Talon Work Light turned "on" the Brightness of the light can be set to Low, Medium or High.

e. In the Talon Work Light Menu, find the "+ (Increase)" ⊞ button or "- (Decre___" ⊟ button. Select the button to adjust the brightness in the corresponding direction.

> **NOTICE:** The "+ (Increase)" ⊞ button and the "- (Decre___" ⊟ button will grey out if the Work Light Brightness cannot be turned any further in that direction or if the light is toggled "Off".

f. To exit the menu, select either the Back ◁ button or Home ⌂ button to exit the menu.

TALON CONTROLS

\\

❯ Select the Active Talon

When the i-Pilot Link System is paired to two Talons paired together, it is possible to control either the left or right Talon individually, or together. This is done from the Talon Menu.
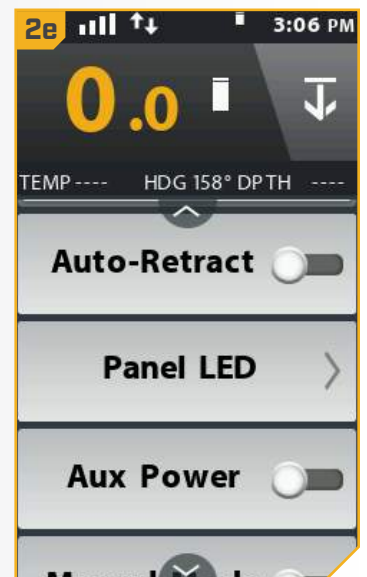
1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon `TALON` button.

c. Select the Talon `TALON` button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

NOTICE: Changing the ability to stow and deploy the Talon is the only feature that is changed with the Active Talon Menu selection. All other features that are selected for one Talon will apply to both in instances where the i-Pilot Link System is paired to two Talons paired together. If the system is only paired to one Talon this button will be greyed out.

2

d. Once in the Talon Menu, find the Active Talon button, and select it. This opens the Active Talon Menu.

e. Scroll through the Active Talon Menu and select one of the three options, "Left/Port" `Left/Port`, "Right/Starboard" `Right/Starboard` or "Both" `Both`.

f. The circle to the right of the Selected option will be colored in green when selected.

g. To exit the menu, select either the Back button or the Home button.

\\

\\\
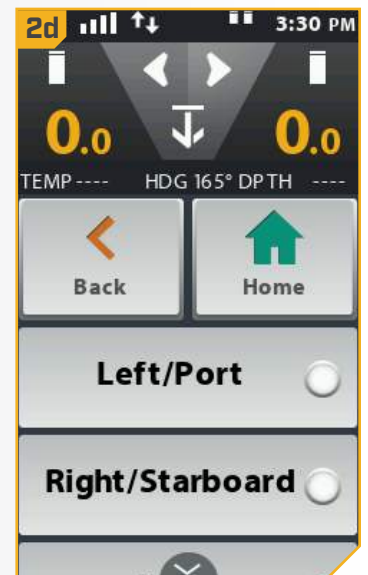
TALON OPTIONS 〉

〉 Toggle the Auto-Retract Message

The i-Pilot Link Remote will display a message when the Auto-Retract message feature is engaged and the boat is traveling above 5 mph when the Talon is at any percentage of deployment. The remote will not display a message about the Talon if it is deployed and the Auto-Retract is deselected, even if the boat exceeds 5 mph.

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon 𝘛𝘈𝘓𝘖𝘕 button.
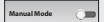
c. Select the Talon 𝘛𝘈𝘓𝘖𝘕 button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

> **NOTICE:** When the i-Pilot System is paired with two Talons, engaging or disengaging the Auto-Retract message on one Talon will engage or disengage the Auto-Retract message on both.
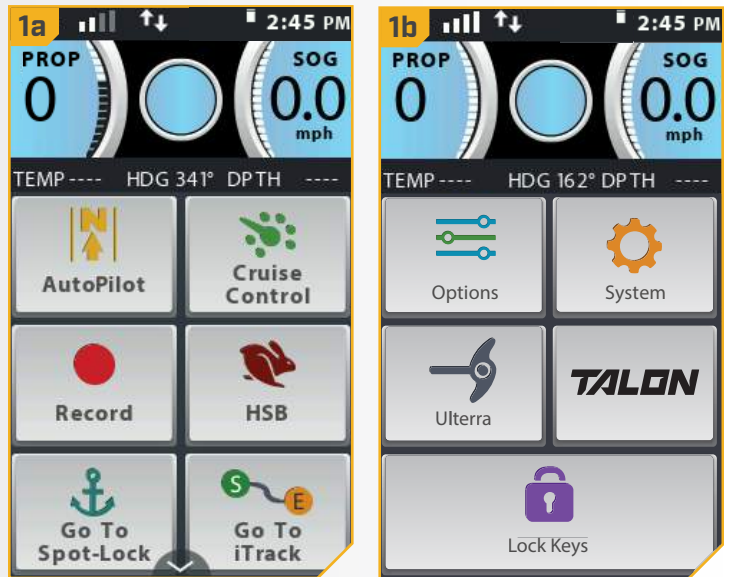
2

d. Once in the Talon Menu, find the Talon Options 🔲 button, and select it. This opens the Talon Options Menu.

e. Once in the Talon Options Menu, scroll through to find the Auto-Retract [Auto-Retract 🔘] option.

f. By default, Auto-Retract is toggled "off".

g. To toggle Auto-Retract, press Auto-Retract [Auto-Retract 🔘] option. The toggle will turn green to indicate Auto-Retract on is turned "on".

> **NOTICE:** When the toggle next to Auto-Retract is green, the Auto-Retract message is engaged. By default the toggle is "off".

\\\

❯ Adjust the Panel LED Brightness

The brightness of the LED Panel on the Talon can be adjusted to account for ambient lighting conditions. There are three options for the LED panel brightness - low, medium and high.
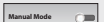
1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon ⬛ button.

c. Select the Talon ⬛ button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

> **NOTICE:** When the i-Pilot System is paired with two Talons, adjusting the panel LED brightness on one Talon will adjust the brightness on both Talons.

2

d. Once in the Talon Menu, find the Talon Options 🔘 button, and select it. This opens the Talon Options Menu.

e. Once in the Talon Options Menu, scroll through to find the Panel LED ⬛ button and select it.

3

f.   Scroll through the Panel LED Menu and select one of the three options, "Low" [Left/Port], "Medium" [Right/Starboard] or "High" [Both].

g.   The circle to the right of the selected option will be colored in green when selected.

h.   To exit the menu, select either the Back [<] button or the Home [🏠] button.

› Toggle Manual Mode

In the event that you ever need to manually retract the Talon, follow the procedure below.

NOTICE: The Talon must be in a deployed state when the Manual Retraction Procedure is used.

1

a.   Press the Home 🏠 button.

b.   Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon [TALON] button.

c.   Select the Talon [TALON] button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

NOTICE: When the i-Pilot System is paired with two Talons, Manual Mode on each Talon can be toggled independently.

TALON CONTROLS

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2

d. Once in the Talon Menu, find the Talon Options button, and select it. This opens the Talon Options menu.

e. Once in the Talon Options Menu, scroll through to find the Manual Mode [Manual Mode] option.

f. In a single Talon installation, to toggle Aux Power, press the Manual Mode [Manual Mode] option.

> **NOTICE:** The appearance of the Manual Mode button will be different from a one to two Talon installation. When one Talon is paired, the Manual Mode [Manual Mode] option will be a toggle. When two Talons are paired, the Manual Mode [Manual Mode 2] option opens a menu.

3

g. A message about placing the Talon into Manual Mode will appear along with a set of instructions.

h. Carefully read and follow the instructions and select the Confirm [Confirm] button. The screen will return to the Talon Options Menu and the toggle will turn green to indicate Manual Mode is turned "on".
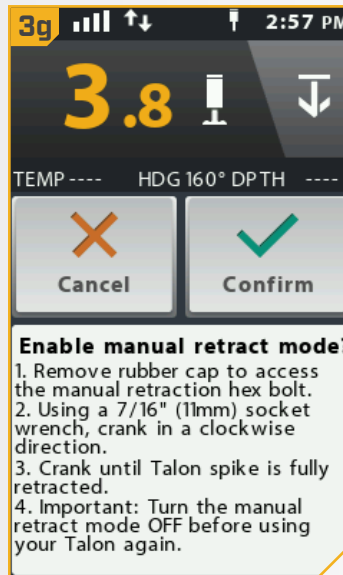
4

i. In a dual Talon installation, to toggle Manual Mode, press the Manual Mode [Aux Power] option. This will open a Manual Mode Menu.

j. When the Manual Mode Menu opens, there will be a toggle for the "Left" and "Right" Talon. Select a Talon to put it into Manaul Mode.

5

k. A message about placing the Talon into Manual Mode will appear along with a set of instructions.

l. Carefully read and follow the instructions and select the Confirm [Confirm] button. The screen will return to the Manual Mode menu and the toggle will turn green to indicate Manual Mode is turned "on" for the selected Talon.
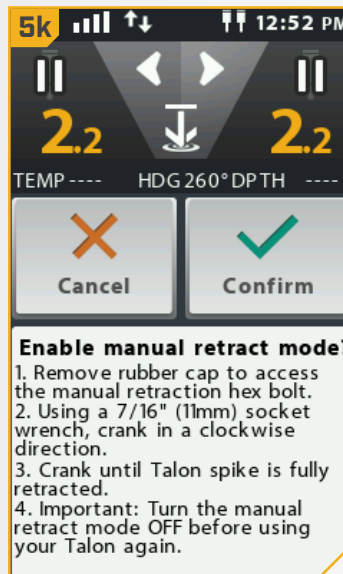
❯ Reverse Talon Left/Right Installation

The i-Pilot Link System recognizes the Port as the left Talon and the Starboard as the right Talon. Use this setting in the event that you ever need to reverse the installation location of two Talons paired to the i-Pilot Link System.

NOTICE: The Reverse L/R Talon option is only available when two Talons are installed and paired with the i-Pilot Link System.
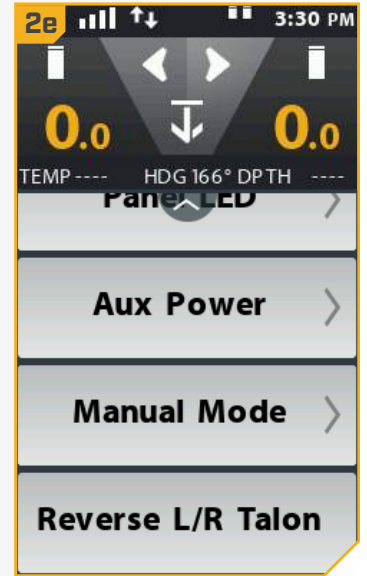
1

a. Press the Home ⌂ button.

b. Scroll through the Content Area using either your finger or the Screen Navigation button to find the Talon TALON button.

c. Select the Talon TALON button using either your finger or by pressing the Ok button to open the Talon Menu.

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2

d. Once in the Talon Menu, find the Talon Options 🔧 button, and select it. This opens the Talon Options Menu.

e. Once in the Talon Options Menu, scroll through to find the Reverse L/R Talon ⬜ option.

f. A message about reversing the Talons will appear. Carefully read the message and select the Confirm ✓ button. The Talon locations will then be reversed.

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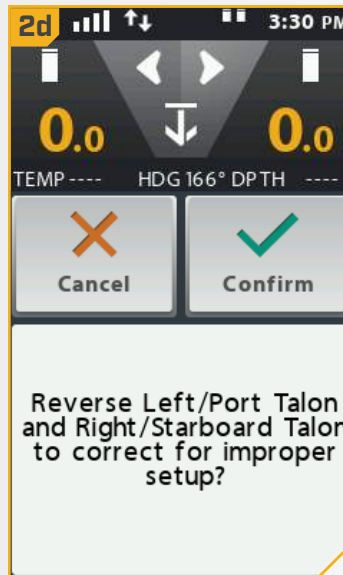
TALON CONTROLS

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TALON SYSTEM ❱

## ❱ Toggle the Touch Screen

The Touch Screen can be toggled from the Talon Menu. By default the Touch Screen is toggled "on".

1

    a.   Press the Home ⬠ button.

    b.   Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon TALON button.

    c.   Select the Talon TALON button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

2

    d.   Once in the Talon Menu, find the Talon System button, and select it. This opens the Talon System Menu.

    e.   Once in the Talon System Menu, scroll through to find the Touch Screen button. By default the toggle is turned "on" and will be highlighted green when "on"

3

f. To toggle the Touch Screen "off", press the Touch Screen [Touch Screen] option. The Touch Screen toggle will turn gray to indicate the Touch Screen is turned "off".
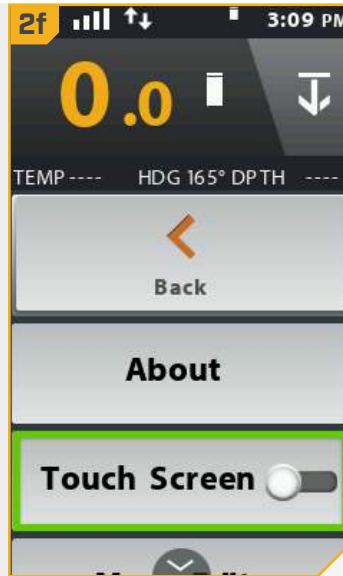
› To Edit the Talon Menu

The i-Pilot Link remote allows the buttons in the Talon Menu to be rearranged. This allows the user to move favorites or frequently used buttons to the top of the menu.

1

a. Press the Home 🏠 button.

b. Scroll through the Content Area using either your finger or the Screen Navigation 🔘 button to find the Talon [TALON] button.

c. Select the Talon [TALON] button using either your finger or by pressing the Ok 🔘 button to open the Talon Menu.

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2

d. Once in the Talon Menu, find the Talon System [icon] button, and select it. This opens the Talon System Menu.

e. Once in the Talon System Menu, scroll through to find the Menu Edit [Menu Edit] button and select it.
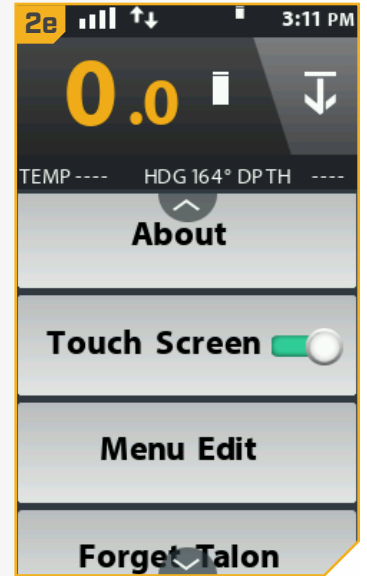
3

f. Once the Menu Edit [Menu Edit] button is selected, the display screen will return to the Talon Menu screen and display the on-screen prompt to "Select icon to move". Select the desired icon to move it.

g. Select the desired placement of the selected icon. Repeat the selection and placement of all desired icons until the Talon Menu screen is as desired.
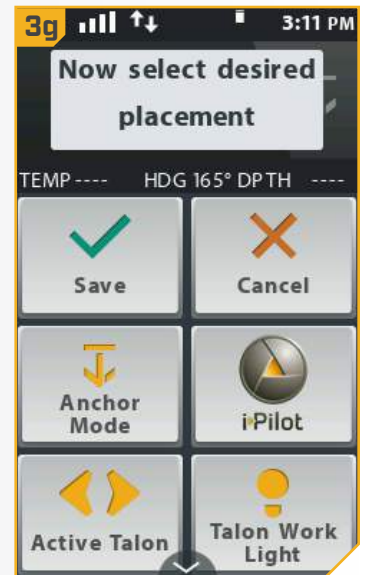
4

h. When done, select the Save ☑ button to keep the new arrangement, or select the Cancel ☒ button to return to the previous Talon Menu arrangement.