

COMPLETING THE INSTALLATION

5

- i. Before normal use of the Raptor, trailer the boat to a body of water. Unload the boat into the water and drive it to water that is no less than the depth of your anchor or a minimum of 10 feet. It is recommended to go into no less than 10 feet of water to ensure that the anchor is able to actuate in its full range of motion to bleed Hydraulic Fluid through the circuit and remove any air present.

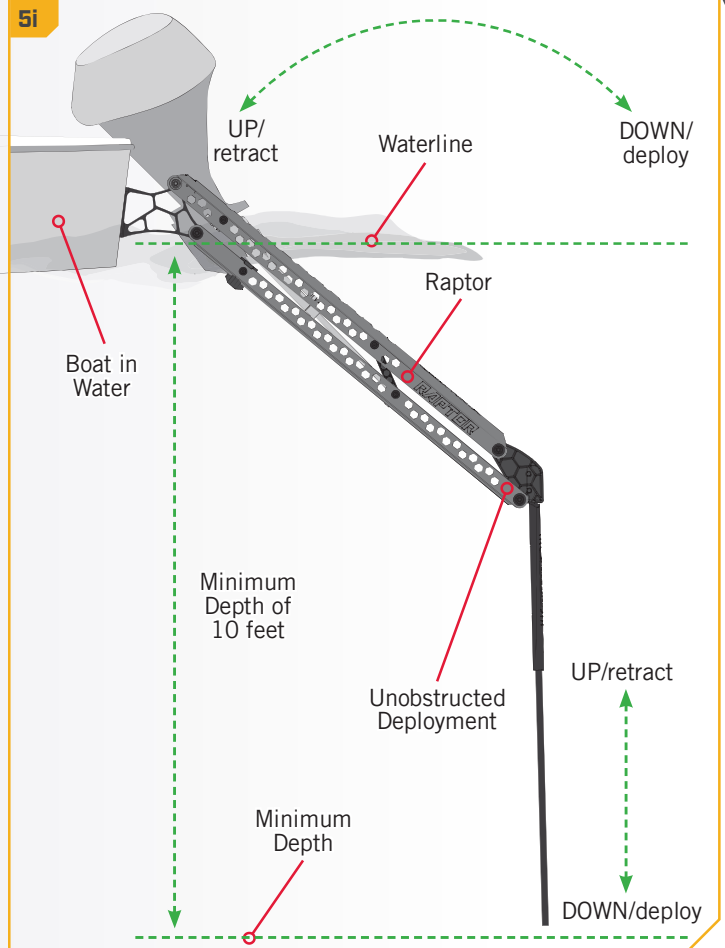
CAUTION

To successfully complete the installation and clear air from the Hydraulic Circuit, it is necessary to purge the circuit of air. Failure to purge the Hydraulic Circuit may result in unexpected anchor operation. Purging the Hydraulic Circuit requires the anchor to fully retract and deploy. Complete the on-water deploy and retract sequences to fully purge the lines.

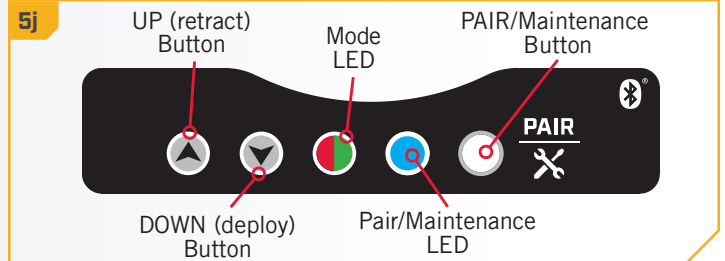
- j. Actuate the pump to its full length of travel using the Up ▲ and Down ▼ Buttons on the Hydraulic Pump to cycle through the deploy (down) and retract (up) sequence. Repeat the cycle ten times. Finish with the Raptor in the retracted state. Once complete, the Hydraulic Circuit is ready for normal use.
- k. The Raptor should be in the retracted state and the Hydraulic lines should be fully purged. Double check the reservoir to make sure that the Hydraulic Fluid is filled to the Maximum Fill Line. After filling the reservoir, if there is Hydraulic Fluid left, retain it for future maintenance. Periodically check the Hydraulic Fluid level in the future to make sure that the .

NOTICE: The Maximum Fill Line and the Minimum Fill Line are located on three sides of the Reservoir so that checking the Hydraulic Fluid level is easily identifiable regardless of Reservoir orientation.

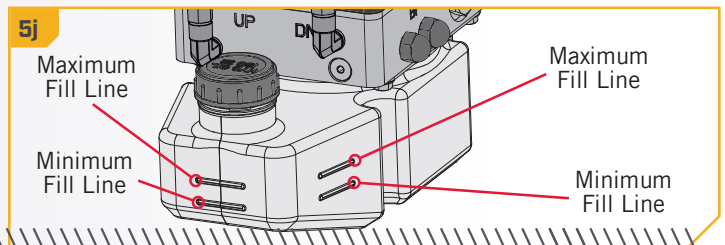
5i



5j



5j



USING THE RAPTOR

RAPTOR FEATURES

Become familiar with the features of the Raptor to maximize the capabilities this product offers.

› Auto Drive

In select Modes, Auto-Drive will automatically power the Spike into the bottom with two successive hits. Raptor actually drives the anchor in for you to ensure the anchor is seated. The number of hits may be reduced when pressure is sufficient on Raptor models with Active Anchoring.

› Active Anchoring

This feature is available on select Raptor models only. It enables the anchor to tell if the pressure on the Spike at the anchored location has changed and allows the Spike to reengage the bottom based on the pressure reading. This feature allows for the Raptor to be anchored more effectively and to adapt to changing conditions.



Mode Functions

The Raptor operates in three different modes and the Raptor with Active Anchoring operates in four different modes. Each Mode is designed for a specific on water scenario and changes the anchoring behavior of the Raptor when it deploys. Modes are identified on the Indicator Panel and the Raptor remotes. Raptor is capable of anchoring in most conditions and it is important to select the right anchoring mode. The four different Mode functions are:

1. **Standard Mode** - Standard Mode is the default anchoring Mode for Raptor units without Active Anchoring. When put in Standard Mode, the Mode Indicator LED in the Indicator Panel will toggle between red and green several times and then turn off. In Standard Mode, Raptor's Auto Deploy will operate with maximum down-force with a complete Auto-Drive cycle of two hits spaced at three seconds apart.

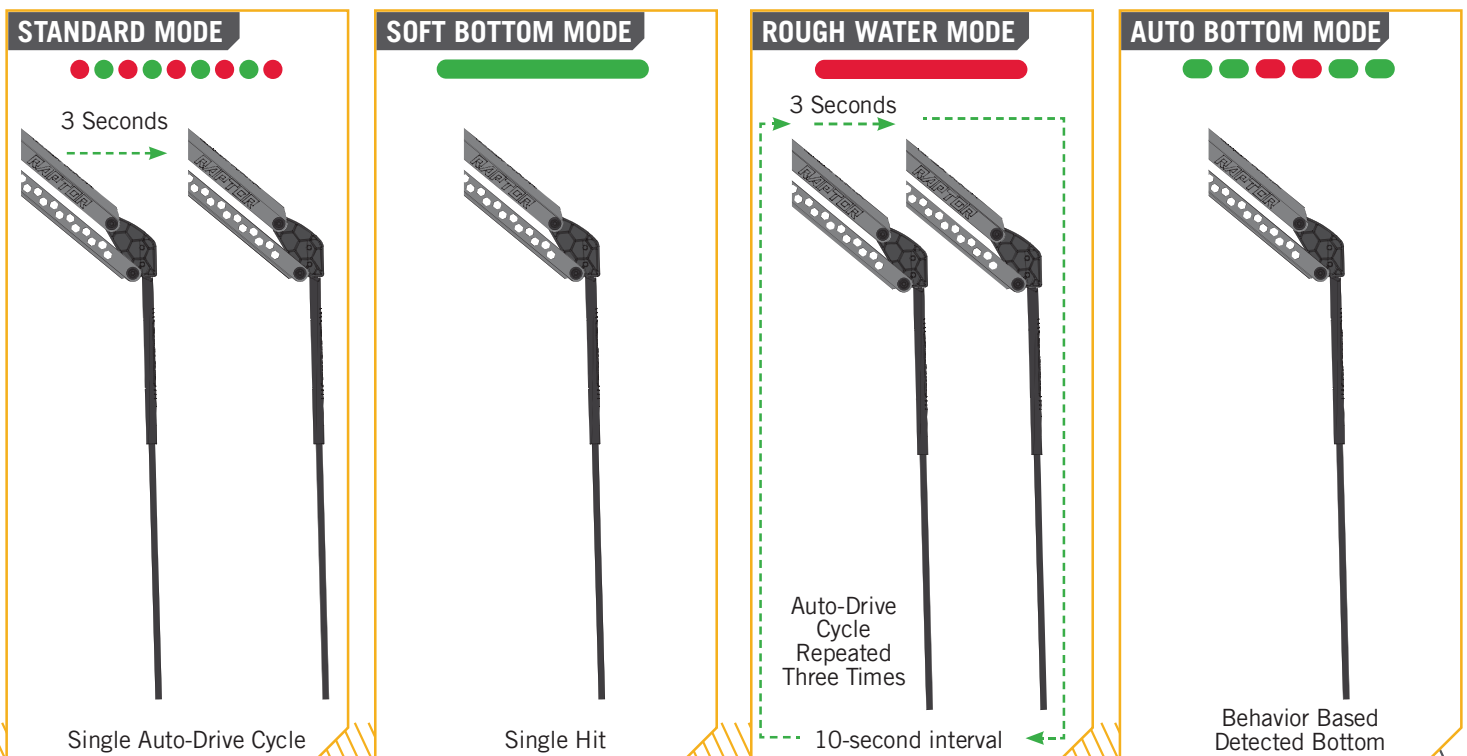
2. **Soft Bottom Mode** - In Soft Bottom Mode, the Mode Indicator LED will be lit green on the Indicator Panel. In Soft Bottom Mode, the Auto Deploy will operate at a reduced power with a single hit.

3. **Rough Water Mode** - In Rough Water Mode, the Mode LED Indicator on the Indicator Panel will be lit red. In Rough Water Mode, the Auto Deploy will operate with maximum down-force with three Auto-Drive cycles of two hits each, spaced 3 seconds apart. **The three Auto-Drive cycles will be spaced at 10 second intervals.**

4. **Auto Bottom Mode** (Active Anchoring Models only) The system detects the bottom type and automatically adjusts force and number of hits accordingly. This is the default mode for all Active Anchoring models. The Mode indicator LED flashes red red green green and then off to indicate this mode is in affect.

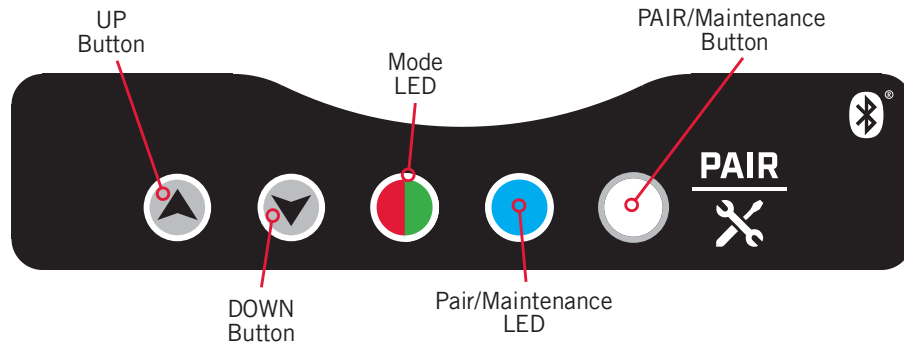
NOTICE: During calm conditions or on water with muddy or soft sandy bottoms, Soft Bottom Mode will prevent the Raptor from over-anchoring.

NOTICE: If power is cycled to the Raptor, the Raptor will "remember" if it was last in "Standard Mode", "Soft Bottom Mode", or "Auto Bottom" and will return to that last known mode. However, if it is left in "Rough Water Mode," and power is cycled, it will revert back to the default mode. This is done to prevent Raptor from unnecessarily over-anchoring.



USING THE RAPTOR

CONTROLLING THE RAPTOR WITH THE INDICATOR PANEL



UP

Press and hold to retract the anchor. The anchor will continue to retract when the button is held until the button is released.











DOWN

Press and hold to deploy the anchor. The anchor deploys until the button is released or the anchor has reached its full range of deployment.





Mode LED

Used to identify the different Anchor Modes. The Mode LED  flashes between green and red for a period of three seconds when the anchor is in Standard Mode. Rough Water mode is identified when the Mode LED  illuminates red and Soft Bottom when the Mode LED  illuminates green. The Mode LED  flashes green and green and then red and red when Auto Bottom is selected. The Mode LED is used to identify Active Anchoring. Mode LED  will briefly pulse green when Active Anchoring is enabled and the Mode LED  will briefly pulse red when it is disabled. The Mode LED  will continue to pulse between green and red while Active Anchoring is enabled and the anchor is deployed. The Mode LED  will also flash red to identify system errors.



Pair/Maintenance LED

While the anchor is in PAIR Mode, the Pair/Maintenance LED  will flash blue. While in Maintenance Mode, the Pair/Maintenance LED  will illuminate blue.



PAIR/Maintenance

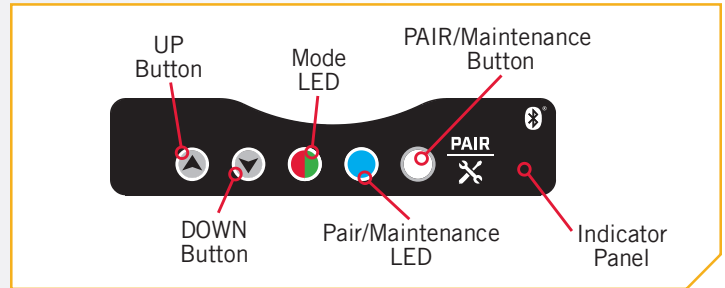
Single press to enter PAIR Mode. The anchor will stay in PAIR Mode until successfully paired, the PAIR button is pressed again to cancel it or until the PAIR process times out after 30 seconds. Press and hold the PAIR button to enter Maintenance Mode. While in Maintenance Mode, the anchor motor is disabled. To cancel Maintenance Mode, press the PAIR button again.

› Deploy the Raptor from the Indicator Panel

Use the buttons on the Indicator Panel to deploy the Raptor anchor.

1

- To deploy the Raptor, press and hold the Down button on the Indicator Panel.
- While the anchor is deploying, the action can be paused on the panel letting go of the Down button.
- The paused deployment can be resumed by pressing and holding the Down button again.
- Once the deploying anchor gets to its full length of travel or comes in contact with the bottom, it will stop.



WARNING

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



CAUTION

The spaces between the Outer Arm, Inner Arm, Spike and brackets of the Raptor can create a pinch point. Do not come in contact with an area of the Raptor that may cause a pinch point while it is moving in any direction to avoid the risk.

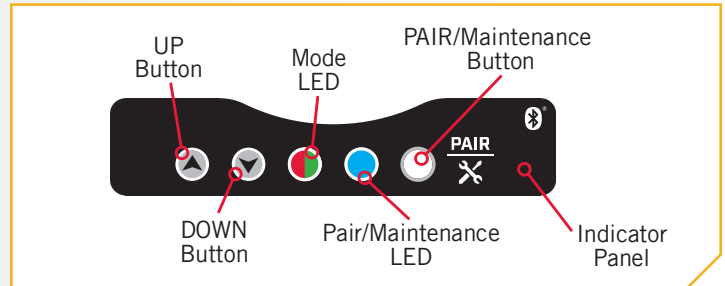
USING THE RAPTOR

› Retracting the Raptor from the Indicator Panel

Use the buttons on the Indicator Panel to retract the Raptor anchor.

1

- To retract the Raptor, press and hold the Up button on the Indicator Panel.
- While the anchor is retracting, the action can be paused on the panel by letting go of the Up button.
- The paused retraction can be resumed by pressing and holding the Up button again.
- Once the retracting anchor becomes fully retracted, release the Up button.



WARNING

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



CAUTION

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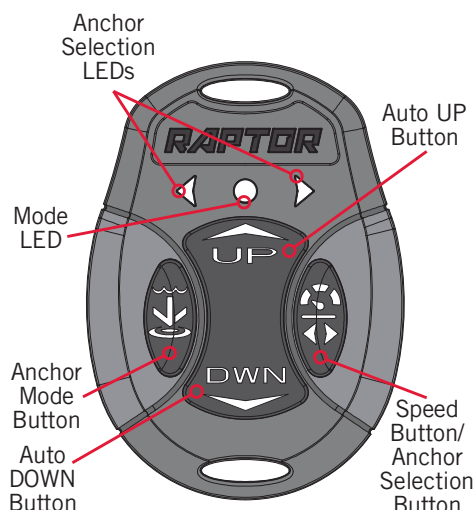
› Pairing the Raptor

For instruction on how to Pair the Raptor, please see the "Pairing the Raptor" section of these instructions.

› Maintenance Mode

For instruction on how to put the Hydraulic Pump into Maintenance Mode, please see the "Service & Maintenance" section of these instructions.

CONTROLLING THE RAPTOR WITH THE REMOTE



Anchor Mode Button

Single press to display the current Anchor Mode. While the mode is displayed, continue to single press through the Anchor Modes to change them. This will toggle through the Anchor Modes of Standard, Rough Water, Soft Bottom and Auto Bottom. Standard Mode is identified when the Mode LED flashes between red and green. Rough Water mode is identified when the Mode LED flashes red and Soft Bottom when the Mode LED flashes green. Auto Bottom Mode is only available on the Active Anchoring Model and is identified by a Mode LED that flashes slowly from green to green and then red to red. On the Active Anchoring Model, the Anchor Mode button will also enable and disable Active Anchoring. Active Anchoring is engaged and disengaged by a single press and hold. When the Mode LED displays green it is enabled and when the Mode LED displays red it is disabled.



Auto Up Button

Single press to auto retract the anchor. Press and hold to continually retract the anchor. The anchor will continue to retract when the button is held until the button is released. Also used to pair the Remote to a Raptor.



Auto Down Button

Double press to auto deploy the anchor. Double press and hold the second press to continually deploy the anchor. The anchor will continue to deploy when the button is held until it reaches its full range of operation or until the button is released. Also used to pair the Remote to a Raptor.



Speed Button / Anchor Selection Button

Single press to display the current operating speed. While the speed is displayed, continue to single press through the operating speed to toggle between slow, medium and fast. The Mode LED will flash red three consecutive times at the speed that corresponds with the selected speed. Pressing and holding the button will toggle the remote to control either the Port, Starboard or both anchors (when two anchors are paired in the system). The Raptor Selection LEDs will illuminate to correspond to the anchor(s) selected. The right LED will illuminate when the Starboard anchor is selected and the left LED will illuminate when the Port anchor is selected. Both the right and left LEDs illuminate when both anchors are selected.



CAUTION

Never leave the boat unattended with the Raptor as your only boat anchor. Raptor is not intended to provide primary anchorage. This includes operating the remote at a safe distance. It is not recommended to leave the boat while operating the Raptor with the remote. Doing so is at the owner's risk. This product does not relieve you from the responsibility of safe operation of your boat.






NOTICE: The two Raptor remotes that come with the Raptor from the factory are pre-paired. If the network connection between the remotes and the anchor is interrupted, please see the "Pairing the Raptor" section of these instructions.

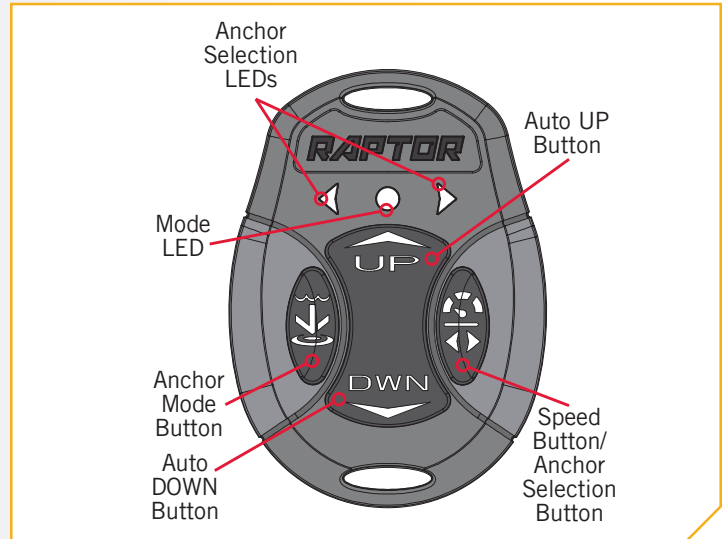
USING THE RAPTOR

› Deploy the Raptor from the Remote

Use the buttons on the Remote to deploy the Raptor anchor.

1

- a. To auto deploy the Raptor, double press and then release the Down  button on the Remote. To continually deploy the Raptor, double press the Down  button and hold the second press.
- b. While auto deploying, the action can be paused by pressing the Down  button again. While the anchor is continually deploying, the action can be paused on the Remote by releasing the Down  Button.
- c. The paused deployment can be resumed by pressing the Down  button again in the same manner.
- d. If continuing to deploy the Raptor, and the anchor gets to its full length of travel, it will stop. If auto deploying the anchor, 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.



NOTICE: When two Raptors are paired, the anchor of the selected Raptor will deploy. The selection can be Port, Starboard, or both.



WARNING

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









CAUTION

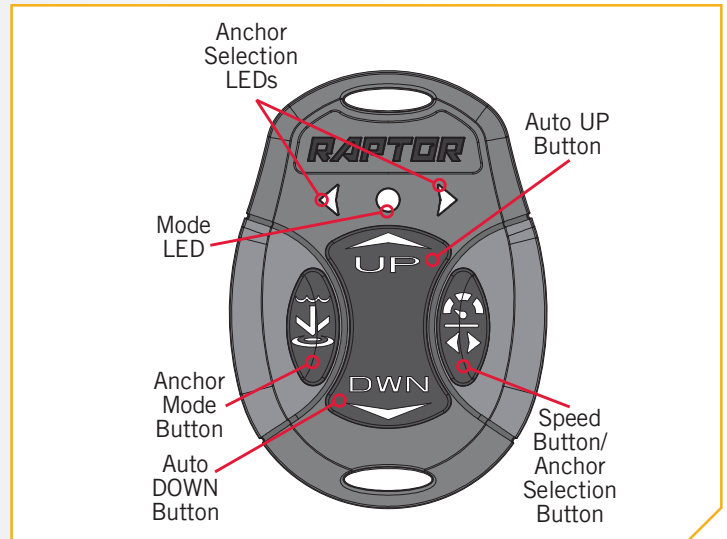
The spaces between the Outer Arm, Inner Arm, Spike and brackets of the Raptor can create a pinch point. Do not come in contact with an area of the Raptor that may cause a pinch point while it is moving in any direction to avoid the risk.

➤ Retracting the Raptor from the Remote

Use the buttons on the Remote to retract the Raptor anchor.

1

- To auto retract the Raptor, press and then release the Up  button on the Remote. To continually retract the Raptor, press the Up  button and hold.
- While auto retracting, the action can be paused by either pressing the Up  button again, or by pressing the Down  button. While the anchor is continually retracting, the action can be paused on the Remote by releasing the Up  button.
- The paused retraction can be resumed by pressing the Up  button again in the same manner.
- If auto retracting, the anchor will stop when the anchor is fully retracted. If continually retracting the button should be released when the anchor is fully retracted.



NOTICE: When two Raptors are paired, the anchor of the Raptor selected on the Remote will retract. The selection can be Port, Starboard, or both.



WARNING

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



CAUTION











The spaces between the Outer Arm, Inner Arm, Spike and brackets of the Raptor can create a pinch point. Do not come in contact with an area of the Raptor that may cause a pinch point while it is moving in any direction to avoid the risk.

USING THE RAPTOR

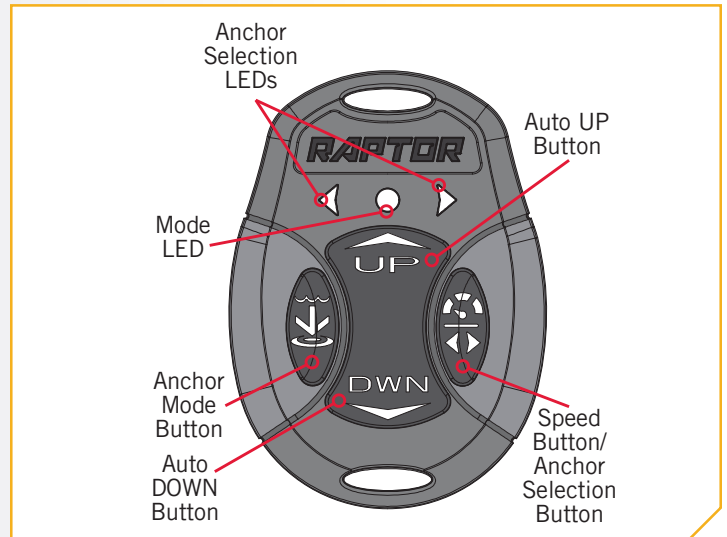
› Toggle the Mode from the Remote

Toggle the Mode on the Remote when the water or anchoring conditions change to fit your anchoring needs.

1

- Single press the Anchor Mode button  to display the current Mode.
- While the Mode is displayed via the Mode LED, continue to single press through the Modes to toggle between Standard, Rough Water, Soft Water and Auto Bottom. Standard Mode is identified when the Mode LED     flashes between red and green. Rough Water mode is identified when the Mode LED  flashes red and Soft Bottom when the Mode LED  flashes green. Auto Bottom Mode is only available on the Pro Model and is identified by a Mode LED    that flashes slowly from green to green and then red to red.




NOTICE: When the Raptor is paired with a second Raptor, changing the Anchor Mode on one Raptor will change the Mode for both Raptors. Read the "Using the Raptor" section of this manual to learn more about Modes.

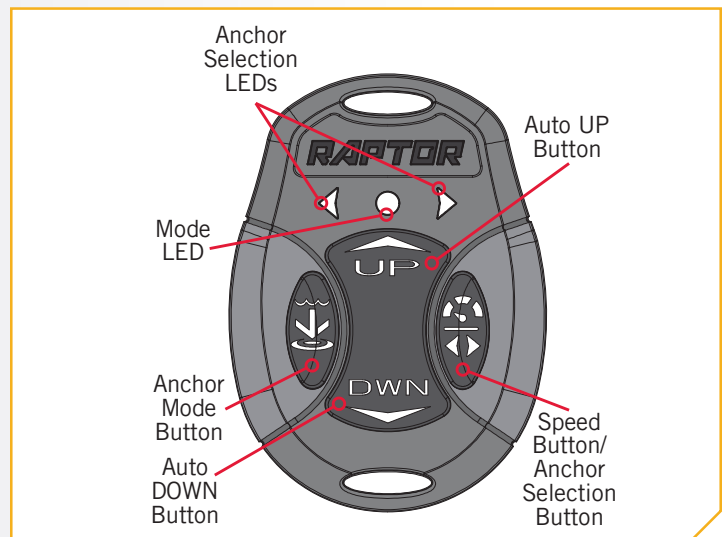


› Toggle Active Anchoring

Active Anchoring is a feature that comes pre-installed on select Raptor models. To learn more about Active Anchoring, see the "Using the Raptor" section of these instructions.

1

- Active Anchoring is engaged and disengaged by a single pressing and holding of the Anchor Mode button . When the Mode LED  displays three short flashes and then one longer flash of green it is enabled and when the Mode LED  displays three short flashes and then one longer flash of red it is disabled.

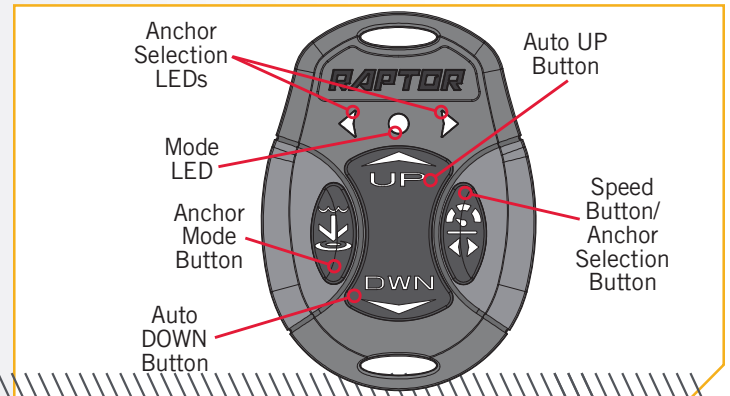


› Select Anchor Operating Speed

The Raptor Speed/Anchor Selection button is used to select the speed at which the anchor operates to stow and deploy. It can be changed to slow, medium or fast. Follow the directions below to set the speed.

1

- Single press the Speed/Anchor Selection button to display the current operating speed.
- While the speed is displayed via the Mode LED, continue to single press through the operating speed to toggle between slow, medium and fast. The Mode LED will flash red three consecutive times at the speed that corresponds with the selected speed.



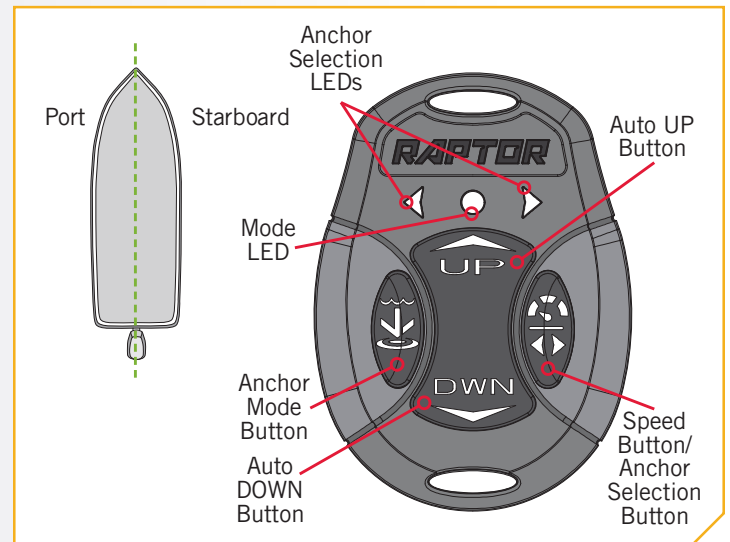
› Selecting a Raptor to Operate with the Remote

The Raptor Speed/Anchor Selection button toggles the Raptor that the remote is controlling, when two Raptors are installed on the boat. The selection toggles between a Raptor mounted on the Port or Starboard side of the boat, or it can control both Raptors at the same time. The Anchor Selection LED's are lit based on the selection made.

1

- To toggle the Raptor selected, press and hold the Speed/Anchor Selection button.
- When the button is pressed, one or both of the Anchor Selection LEDs will be lit. The Anchor Selection LEDs will illuminate to correspond to the anchor(s) selected. The right LED will illuminate when the Starboard anchor is selected and the left LED will illuminate when the Port anchor is selected. Both the right and left LEDs will illuminate when both anchors are selected. Release the Speed/Anchor Selection button when the desired Raptor(s) is/are selected.

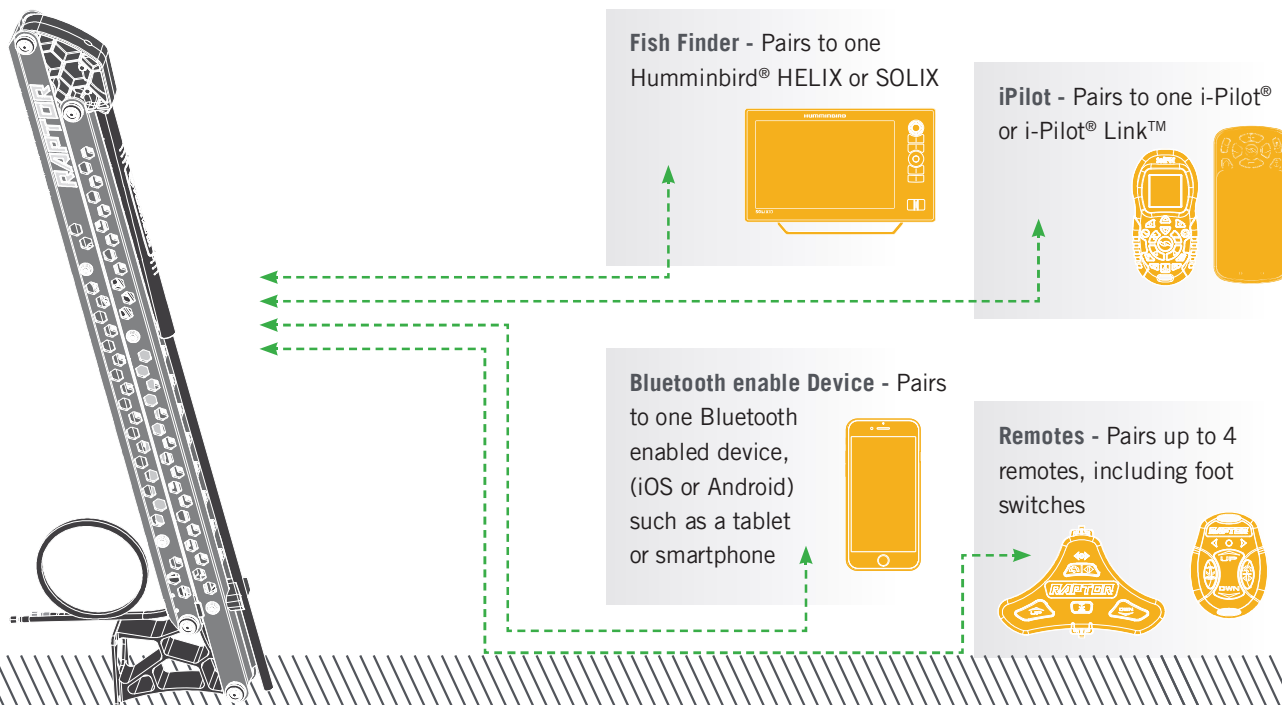
NOTICE: When two Raptors are paired to the remote, the anchors may not be in sync when retracting and deploying.



NOTICE: The Raptor Remote will always remember the last selection made unless the remote or Raptor lose power.

PAIRING THE RAPTOR









NETWORK FOR A SINGLE RAPTOR

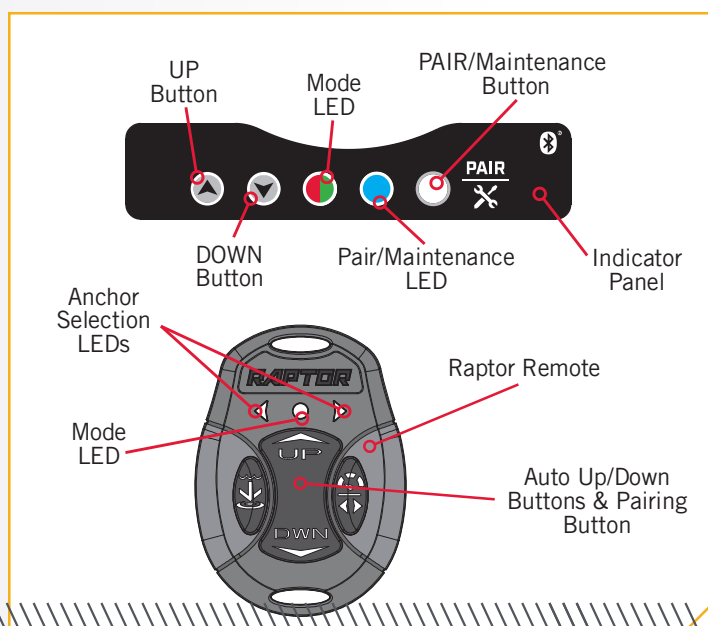


PAIRING A REMOTE TO A SINGLE RAPTOR

Every Raptor comes direct from the factory with 2 remotes already paired to the Raptor. If more remotes are paired to the Raptor than the network allows, the Raptor will pair the new remote and remove the remote that was least recently used from the network.

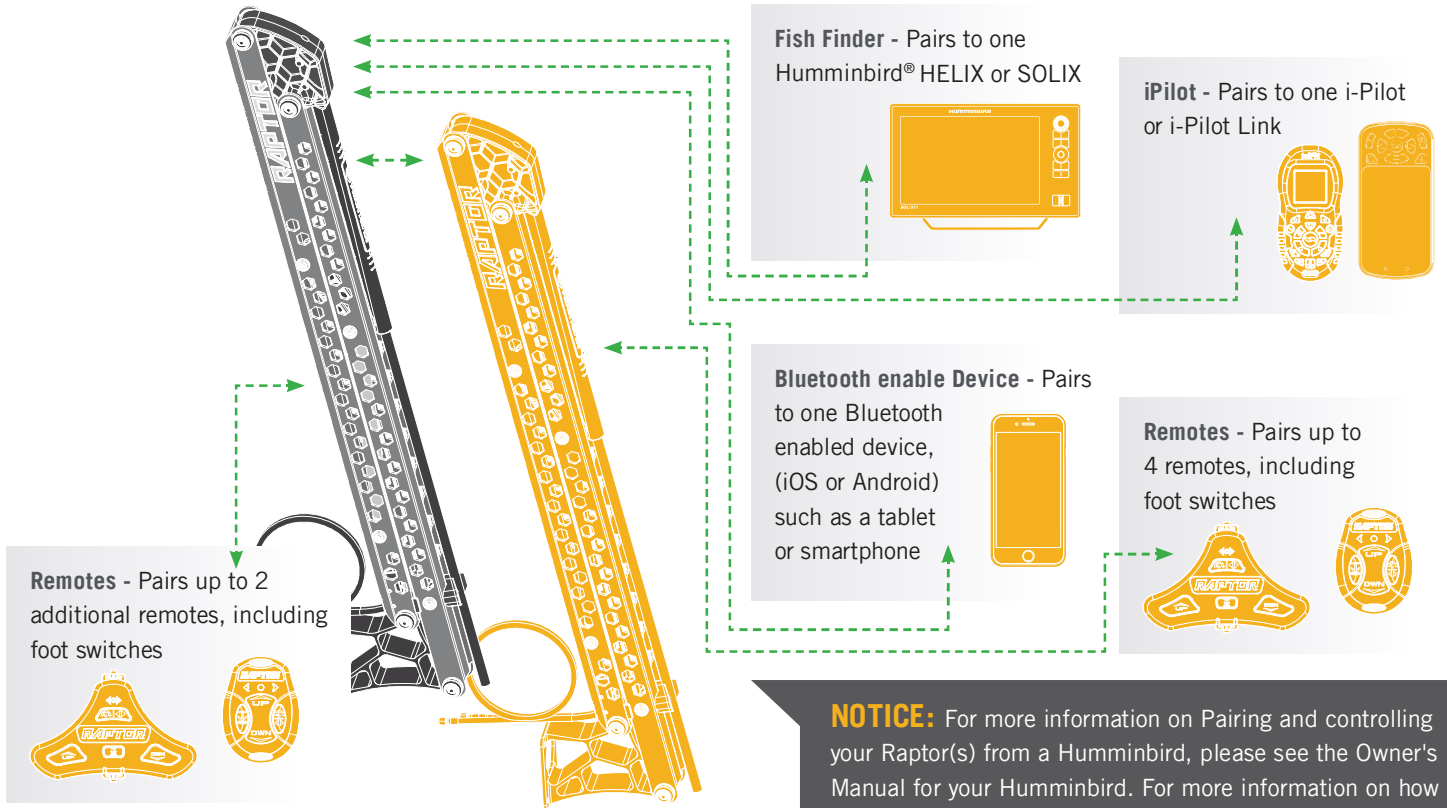
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- Press and hold the Up  button and the Down  button on the Remote at the same time until the Anchor Selection LEDs and the Mode LED on the Remote begin to scroll     red, green, red and red. Then release them.
- Immediately press the Pair  button on the Indicator Panel located on the Raptor Pump Assembly. The PAIR/Maintenance LED will begin to flash  blue. The Raptor and Remote will go into Pairing Mode for 30 seconds. If a signal with three fast beeps occurs, the Raptor and Remote have successfully paired. If 30 seconds pass while in Pairing Mode and they do not successfully pair, a chirp will sound from the Pump Assembly, signaling that the Pairing has timed out.
- If the Pair is unsuccessful, repeat the process.



PAIRING THE RAPTOR

NETWORK FOR TWO RAPTORS





NOTICE: For more information on Pairing and controlling your Raptor(s) from a Humminbird, please see the Owner's Manual for your Humminbird. For more information on how to Pair and control a Raptor on an i-Pilot or i-Pilot Link, please see the corresponding Owner's Manual.

PAIRING THE RAPTOR

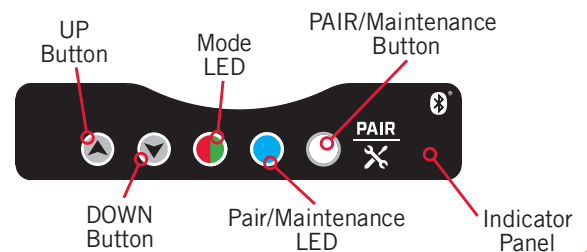
PAIRING TWO RAPTORS AND PROGRAMMING THE MOUNTING LOCATION

Every Raptor comes direct from the factory with 2 Remotes already paired to the Raptor. When a boat has two Bluetooth® enabled Raptors installed, it is necessary to pair both Raptors together, and to program which side of the boat each Raptor is installed on. The process below is used to pair the Raptors together, and to designate which side of the boat that each Raptor is installed on. When the process is complete, all Remotes that were paired to an individual Raptor will need to be re-paired. Please see the "Pairing a Remote to Two Raptors" section of this manual.

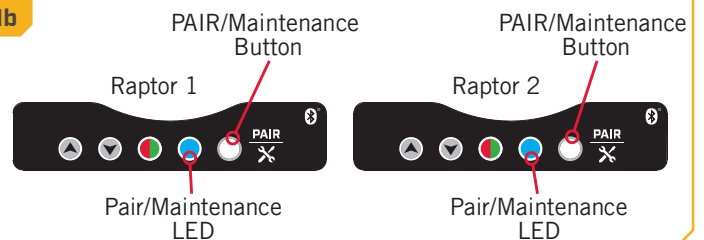
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- Press the Pair  button on the Indicator Panel on one of the Raptors. The PAIR/Maintenance LED will begin to flash  blue. Immediately follow this step on the second Raptor.
- The Raptors are in Pairing Mode and will search for each other for 30 seconds. If they do not Pair after 30 seconds, an error tone will sound signaling that the Pairing has timed out. If this occurs, start the process again.
- If the Raptors successfully Pair, a confirmation tone with three fast beeps will occur. At this point, the Raptors have successfully paired, and now need to be programmed to designate the Port or Starboard locations. This process will automatically begin when two Raptors have successfully paired to each other.




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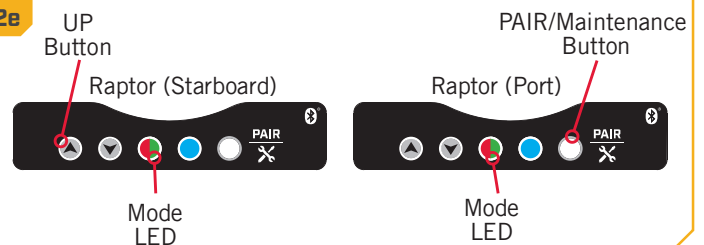
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- The Mode Indicator LED will turn green  on both Raptors. On the Indicator Panel of the Starboard Raptor, press the Up  button. The Raptor will accept the selection. The Mode LED of the Raptor on the Port side will flash red  and then the LEDs on both Raptors will turn off. Now the Raptors are successfully Paired together and know their mounted position.

2e



NOTICE: When the process is complete, all remotes that were paired to an individual Raptor will need to be re-paired. Please see the "Pairing a remote to two Raptors" section of this manual.