

# TRUBLUE iQ+LT / TRUBLUE iQ+ XL AUTO BELAY

## Installation Guide

Models: TBiQ+LT / TBiQ+XL





## NOTE TO INSTALLERS

Always Read Instructions Before Use

Leave this Installation Guide attached to the Auto Belay. The Installation Guide contains information relating to the safe use of the TRUBLUE iQ+ Auto Belay and includes all product registration and Warranty information. This document may only be removed by the Owner/Operator. Ensure that this Installation Guide is readily available to Operators at all times

**Head Rush Technologies** TRUBLUE iQ+ Installation Guide **P/N** 12904-03

Head Rush Technologies products are covered by a number of patents, including **U.S. Patents** 8,490,751; 8,851,235; 9,016,435 and D654,412

& corresponding patents/applications in the USA and in other countries worldwide.





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## IMPORTANT SAFETY NOTICE Climbing/Descent from Height Is a Dangerous Activity

## **Read Before Installation**

Failure by the Operator to heed any and all instructions, warnings and cautions for the correct installation, operation, care and maintenance of the TRUBLUE iQ+ Auto Belay may result in death and/or serious injury.

TRUBLUE iQ+ Auto Belay Model TBiQ+LT and Model TBiQ+XL and their associated equipment are designed and specified for use in the recreational climbing/aerial adventure industry as a controlled descent device. Use of the TRUBLUE iQ+ Auto Belay for any purposes other than that intended by the Manufacturer is not permitted.

Owners and Operators of the TRUBLUE iQ+ Auto Belay are responsible for the safety and training of any person using the TRUBLUE iQ+ Auto Belay and are required to undergo training in the correct installation and operation of the device prior to any use.

These instructions must be made readily available to the Operator at all times. Prior to installation and use, all Owners and Operators must have read and shown to have understood all instructions, labels, markings, and safety information pertaining to the installation, operation, care, and maintenance of the TRUBLUE iQ+ Auto Belay system, its component parts, and all associated hardware. Users of the TRUBLUE iQ+ Auto Belay must be trained on proper usage of the Auto Belay. It is the responsibility of the Owner/Operator to provide this training. Failure to do so can result in death, serious injury, and equipment damage.

## **Health and Safety**

Owners and Operators must abide by all Standards, International, Federal, State and Provincial laws, and any specific health and safety regulations pertaining to the installation and use of this product.

## Site Rescue Plan

Owners and Operators must have devised an emergency rescue plan for any climber in distress at all sites operating TRUBLUE iQ+ Auto Belay devices. Operators must inform Users of the Auto Belay of the procedure for rescuing a climber in distress prior to climbing.

## 1.0 SAFETY INFORMATION

## 1.1 Symbols Used in this Manual

The following safety symbols are used throughout this Manual to highlight potential dangers. One or more precautions may be associated with practices and procedures described within this Manual. Failure to adhere to any precautions highlighted can result in death, serious injury, or equipment damage.

Ensure that you read and understand all safety procedures related to the working environment and the task you are performing.



## DANGER

Indicates a hazardous situation exists that, if not avoided, will result in serious injury or death.



## WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death.



## CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in injury or equipment damage.



## NOTE

Indicates an action that must be taken to ensure personal safety and prevent damage to property or equipment.



## CARE FOR THE ENVIRONMENT

Take care to minimize impact on the environment when carrying out this procedure.

## 2.0 IMPORTANT INFORMATION

## 2.1 Included Parts List

1x TRUBLUE iQ+ Auto Belay 1x Summit Button 1x Base Button 2x 20 m Communication Cable



1x Summit Button Backer	
1x Base Button Backer	TRUBLUE
1x Battery Removal Tool	
1 Releasable Cable Tie	

## 2.2 TRUBLUE iQ+ Modes

The TBiQ+ Base Button and Summit Button are equipped with LEDs. These LEDs communicate the mode of the device as well as the battery level.

MODE	DESCRIPTION	LED INDICATOR
System Check	Every time the Battery Pack is connected, the device will	LEDs flash Green – System Check OK
	perform a system check. The LEDs will flash displaying the system status.	LEDs flash Yellow – Battery Level Low
		LEDs flash Red – Battery Level Critically Low – Catch-and- Hold Mode is unavailable
		LEDs do not flash - System Error - Refer to Section 10.9 Troubleshooting in Operator's Manual
Normal Mode	Device functions as a standard TRUBLUE iQ Auto Belay. A fall during climbing will safely lower the climber to the ground.	LEDs off
Catch-and-Hold Mode	Device will monitor climbing progress and engage the secondary friction brake if a fall is detected.	Blue LEDs pulsing slowly
Hold Mode	Device has sensed a fall, secondary friction brake is engaged, and a climber is being held in position on the wall.	Blue LEDs solid, if upward progress is detected, device will revert back to Catch-and-Hold Mode.
Countdown Mode	Hold Mode engaged, Preset Hold Time is about to expire.	Blue LED Flashing
Low Battery Mode	The battery capacity is low. If engaged, Catch-and-Hold Mode will function as normal. Replace/recharge the Battery Pack.	LEDs pulse Yellow when Catch-and-Hold Mode is activated
Critically Low Battery Mode	The battery capacity is critically low. Catch-and-Hold Mode will not activate. Replace/recharge the Battery Pack.	LEDs flash Red when attempting to activate Catch- and-Hold Mode. Catch-and- Hold Mode does not activate.
Disco Mode	If the device is left unused for 5 minutes, Disco Mode activates and continues for 5 seconds.	LEDs flash a variety of colors to entice nearby climbers.

## 2.3 TRUBLUE iQ+ Battery Pack



## WARNINGS

Do not crush, drop, or damage the Battery Pack. Do not use a Battery Pack that has been dropped or received a sharp blow. Batteries can explode in the presence of a source of ignition. Never place the Battery Pack near an open flame or heat source. An exploded Battery Pack can propel debris and chemicals. If exposed, flush with water immediately.

Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention.

Do not attempt to destroy or disassemble the Battery Pack or remove any of its components. Lithium-ion batteries must be recycled or disposed of properly. Never touch both terminals with metal objects and/or body parts as short circuit may result. Keep away from children.

Failure to comply with these warnings could result in fire and/or serious injury.



## **CAUTIONS**

Only charge the TRUBLUE iQ+ Battery Pack with the Head Rush Technologies supplied TRUBLUE iQ+ Battery Charger. Attempts to charge the Battery Pack with unapproved chargers may result in damage to the Battery Pack, fire, or serious injury.

Do not attempt to power any device other than the TRUBLUE iQ+ with the supplied Battery Pack.

Do not submerge the Battery Pack in water.

Do not charge the Battery Pack in a damp or wet location.

Do not store the Battery Pack in direct sunlight or in a vehicle.



## **NOTES**

Save these instructions. Refer to them frequently and use them to instruct others who may use the TRUBLUE iQ+ Auto Belay.

For best results, the Battery Pack should be charged in a location where the temperature is more than 50°F (10°C) but less than 100°F (37.8°C).

The TRUBLUE iQ+ Battery Pack has been designed to provide maximum trouble-free life. However, like all batteries, they will eventually wear out. Do not disassemble the Battery Pack or attempt to replace the batteries.

## TRUBLUE IQ+ BATTERY PACK

The TRUBLUE iQ+ Auto Belay uses a Head Rush Technologies supplied 18 V rechargeable lithium-ion Battery Pack to power all sensing, LED, and Catch-and-Hold Technology. The Battery Pack is NOT required for normal Auto Belay braking during descent. If the Battery Pack is removed or runs out of charge, the TRUBLUE iQ+ Auto Belay will function just like a regular TRUBLUE iQ Auto Belay and is safe for use. The Battery Pack must be recharged periodically for continued operation of the Catch-and-Hold Technology. The Battery Pack should be inspected for damage at every charge interval. Head Rush Technologies recommends re-charging the Battery Pack every night to ensure a full day worth of operation. It is safe to leave the Battery Pack plugged into the Battery Charger overnight.

## **BATTERY PROTECTION FEATURES**

Head Rush Technologies Battery Packs are designed with features that protect the lithium-ion cells and maximize battery life.

## CHARGING THE BATTERY PACK

The Battery Pack is shipped in a low charge condition to prevent possible problems. Therefore, you will need to charge the Battery Pack with the supplied Battery Charger before installing in the TRUBLUE iQ+ Auto Belay. Charge the Battery Pack until the LED on the Battery Charger turns green. See Operator Manual for detailed charging instructions.



Charging Time: 5 hours for 95% charge, 8 hours for 100% charge

## 2.4 Wiring Diagram



## 3.0 AUTO BELAY INSTALLATION

## 3.1 Precautions



## ALWAYS USE DESIGNATED MOUNTING POINTS

Never install the Auto Belay using any part of the device apart from the designated mounting points. Incorrect mounting can result in serious injury or death.



## ALWAYS USE THE CORRECT MOUNTING HEIGHT

Failure to install the device at the correct mounting height could result in damage to the device or loss in device performance.



## HARD IMPACTS MAY RESULT IN STRUCTURAL DAMAGE

Dropping of, or hard impacts to, the Auto Belay can result in serious damage to mounting points and internal parts and may compromise safety of operation. If the Auto Belay is subject to a hard impact, remove it from duty and return to a service agent for inspection.



## HEAVY ITEM - TBIQ+LT: 19.2KG (42.3LBS) TBIQ+XL: 22.0KG (48.5LBS)

Take care when lifting the Auto Belay. Take care not to drop the device as this may result in serious injury or equipment damage.



## ALWAYS MOUNT VERTICALLY

Always mount the Auto Belay vertically with the Nozzle pointing downwards and the line exiting the bottom of the device. Failure to do so will result in incorrect operation and compromise User safety.



## HARMFUL CONTACT

Do not allow solvents, acids, sharp edges etc. to get into contact with the device, especially the webbing. If this occurs, the Auto Belay must be inspected.

## 3.2 Standards

Prior to installation, all Operators must be familiar with the requirements of all relevant Standards for anchor points, hardware, and equipment used with the Auto Belay.

## 3.2.1 ANCHOR POINTS

All anchor points and connectors used with a TRUBLUE iQ+ Auto Belay must conform to any federal or state requirements for such devices.

Head Rush Technologies requires anchor points to have a minimum load capacity of 10 kN (2200 lbs) in expected directions of application. Other national and international standards for anchor points may apply and require higher load capacity. Consult with the authority having jurisdiction for your required load capacity.

The location and anchor points for the TRUBLUE iQ+ Auto Belay should comply with the following:

- Anchor points are not to be used by additional devices or as attachments for hardware not associated with the Auto Belay installation.
- Anchor points should be of a suitable size to correctly install any mounting hardware.

## 3.2.2 SECONDARY CONNECTORS

All secondary connectors and hardware used in the installation of the TRUBLUE iQ+ Auto Belay must conform to the requirements of:

- EN 362 Types of connectors for personal protection.
- EN 12275 Types of connectors for mountaineering.

All connectors, hooks, D-rings and shackles used to mount the TRUBLUE iQ+ Auto Belay must be of compatible size, shape and strength for the mounting point to which they are attached.

## 3.2.3 SELECTING A LOCATION

The TRUBLUE iQ+ Auto Belay is to be mounted at the top of the climbing route/ descent path with the Nozzle and webbing line pointed down.

When selecting a location to mount the Auto Belay, ensure that:

- The Auto Belay will hang vertically over the climbing route with the Nozzle pointing down.
- All paths that can be encountered by the User when connected to the Auto Belay are free of sharp edges and high-friction surfaces that may damage the webbing line.
- Ensure that the descent path and landing area are free of other people or obstacles that may cause entanglement or restrict the user's ascent or descent.
- The Auto Belay is free to pivot in all directions and should not bind the mountings or be able to impact upon the surrounding structure.

## 3.2.4 OUTDOOR INSTALLATIONS

The TRUBLUE iQ+ Auto Belay may be installed outdoors.

It is recommended that in wet or high-variable temperature environments, the Auto Belay is protected from the direct ingress of water or foreign objects. It is recommended to remove the Battery Pack for long periods of rain.



## NOTE

Prolonged exposure to the elements will increase the risk of internal corrosion and degradation of the webbing line, resulting in increased operation and servicing costs. Increased inspections are required in these types of environments.

Outdoor installations in high UV, wind, and sand will require more frequent webbing replacements as these elements will artificially age the webbing and reduce its strength over time. Head Rush Technologies recommends storing the webbing inside the device when not in use and replacing the webbing every 6 months as a precaution.

## 3.3 Installation Video



## NOTE

To view TRUBLUE iQ+ Installation Video scan this QR Code.



## 3.4 Auto Belay Installation

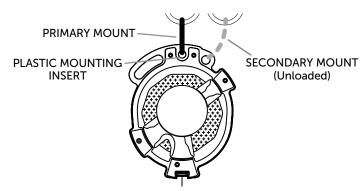
The TRUBLUE iQ+ Auto Belay is manufactured with a single central pivot mounting point, an offset mounting point, and a formed handle located at the top of the casing. These mounting points are located to ensure the unit hangs centrally and vertically with the line Nozzle pointing down.

The Rear Cover is a sacrificial protective cover designed to prevent damage to both the device and any adjacent surface. Should the Cover become excessively worn, damaged, or aesthetically unpleasing, it may be replaced by the Owner/ Operator. Details of replacement parts may be found in the Replacement Parts section of the Operator Manual.

The TRUBLUE iQ+ Auto Belay MUST be installed with the flat plastic cover facing the climbing/descent wall. The TRUBLUE iQ+ Brake Module MUST face away from the climbing/descent wall. The flat plastic cover has been designed specifically to be more durable for impacts with the climbing/descent wall surface caused by natural movements of the Auto Belay while users are attached the Auto Belay.

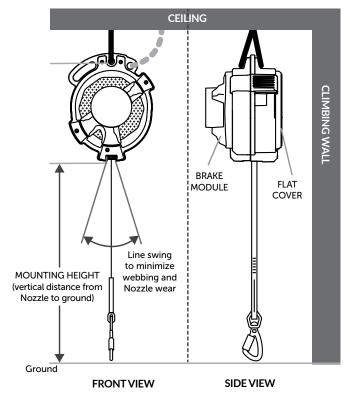
Install the Auto Belay by using the central mounting point, as shown on the next page, with a longer, non-loaded secondary mount utilizing the offset mount or handle mounting points. Only use the central mounting point as shown. Ensure mounting hardware is secure and the unit is free to pivot in all directions.

The TRUBLUE iQ+ Auto Belay has a plastic mounting insert which is inserted through the primary mount attachment point. The mounting connector or carabiner should always be used with the plastic mounting insert during installation. This plastic mounting insert is designed to protect the aluminum mounting point from deformation due to swinging and movement of the Auto Belay during use. If your mounting insert becomes broken or lost, replacement mounting inserts are available from Head Rush Technologies.



## **DEVICE ORIENTATION**

Always mount the TRUBLUE iQ+ Auto Belay with the covers parallel to the face of the climbing wall. Mounting in this direction will allow the TRUBLUE iQ+ Auto Belay to swing laterally and minimize the wear on the webbing line, Nozzle assembly and mounting points. The flat cover MUST be mounted facing the climbing/descent wall. The Brake Module MUST be facing away from the climbing/descent wall.



Mounting Orientation

## 3.5 Wire Routing

With the TRUBLUE iQ+ Auto Belay properly mounted, the 20 m Communication Cable can be routed to the device.

## STEP 1: INSTALL RELEASABLE CABLE TIE

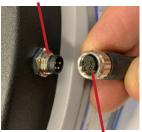
Insert the Releasable Cable Tie into the Cable Tie Holder.



## STEP 2: CONNECT 20 M COMMUNICATION CABLE

Align the pins in the Device Connector to the sockets in the Cable End. Press the Cable End onto the Device Connector. Screw the Cable End onto the Device Connector until finger tight. Take care to only turn the silver piece of the Cable End to avoid damaging the 20 m Communication Cable.





CABLE END



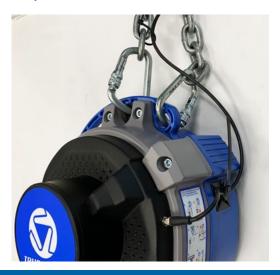
## STEP 3: SECURE THE 20 M COMMUNICATION CABLE

Route the 20 m Communication Cable through the Releasable Cable Tie. Leave a small amount of slack in the 20 m Communication Cable to prevent excess strain on the cable connection. Tighten the Releasable Cable Tie to secure the 20 m Connection Cable.



## STEP 4: ROUTE THE 20 M COMMUNICATION CABLE

Route the 20 m Communication Cable to the Primary Mounting Point of the Auto Belay and secure with a cable tie or similar cable attachment method. Routing the 20 m Communication Cable to the Primary Mounting Point prevents a swinging Auto Belay from damaging the 20 m Communication Cable. Ensure that the 20 m Communication Cable cannot be strained by normal movement of the Auto Belay. Add slack into the 20 m Communication Cable as necessary to remove the possibility of strain.



## STEP 5: ROUTE THE 20 M COMMUNICATION CABLE CONT.

The 20 m Communication Cable must be routed to the ground behind the climbing wall to prevent damage to the cable. Determine the best location to route the 20 m Communication Cable to the base of the climbing wall where the Base Button will be mounted.

Head Rush recommends removing a T-Nut from the climbing wall to reveal a 7/16" hole and feed the length of the 20 m Communication Cable through the hole to the ground.





## NOTE

If access to the back side of the wall is limited or if removing a T-Nut is not an option, the 20 m Communication Cable can be passed over the top of the wall and lowered to the ground. Some walls may require drilling a 7/16" hole from the front side of the wall to gain access to route the cable on the back side of the wall.

## 4.0 SUMMIT BUTTON INSTALLATION

The Summit Button is mounted at the top of the climbing route and, when touched, disables the Catch-and-Hold feature of the TRUBLUE iQ+ Auto Belay. The Summit Button is powered by a 20 m Communication Cable that connects to the Base Button via the Y-Cable Splitter. The Summit Button requires a 7/16" hole and three (3) of the included wood screws to attach to the climbing wall.

## STEP 1: CHOOSE A LOCATION FOR THE SUMMIT BUTTON

Determine a suitable location for the Summit Button. A suitable location should be:

- At or near the top of the climbing route
- On a flat section of the wall
- Easily accessible by a climber that has finished the route

## STEP 2: ROUTE THE 20 M COMMUNICATION CABLE

The 20 m Communication Cable must be routed to the ground behind the climbing wall to prevent damage to the cable. Determine the best location to route the 20 m Communication Cable to the base of the climbing wall where the Base Button will be mounted.

Head Rush recommends removing a T-Nut from the climbing wall to reveal a 7/16" hole and feed the length of the 20 m Communication Cable through the hole to the ground.



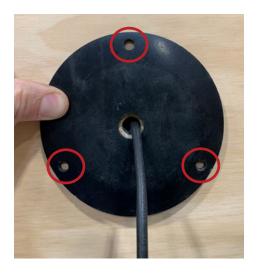
## NOTE

If access to the back side of the wall is limited or if removing a T-Nut is not an option, a 7/16" hole must be drilled from the front side of the wall to gain access to route the cable on the back side of the wall.



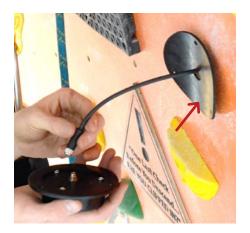
## STEP 3: PRE-DRILL MOUNTING HOLES (OPTIONAL)

Use the Summit Button Backer to mark and pre-drill the three (3) mounting holes for the Summit Button. The center hole in the Summit Button Backer should align with the 7/16" hole created in the previous step.

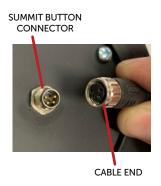


STEP 4: CONNECT THE 20 M COMMUNICATION CABLE

Slide the Summit Button Backer onto the cable.



Align the pins in the Summit Button Connector to the sockets in the Cable End. Press the Cable End onto the Summit Button Connector. Screw the Cable End onto the Summit Button Connector until finger tight. Take care to only turn the silver piece of the Cable End to avoid damaging the 20 m Communication Cable.





## STEP 5: MOUNT THE SUMMIT BUTTON

Screw the Summit Button to the climbing wall using three (3) of the included wood screws.





## NOTE

Any #10 flat head screws can be used in place of the wood screws if the wall material requires a different type of screw.

## 5.0 BASE BUTTON INSTALLATION

The Base Button contains the Battery Pack and is used by the climber to turn Catch-and-Hold Mode On or Off. The Base Button should be installed at the base of the climbing wall in a convenient location. The Base Button requires a 7/16" hole and three (3) of the included wood screws to attach to the climbing wall.



## NOTE

Remove the Battery Pack from the Base Button Battery Tray before installing the Base Button.



## WARNING

Do not connect the Battery Pack until all cable connections have been completed.

## STEP 1: CHOOSE A LOCATION FOR THE BASE BUTTON

Determine a suitable location for the Base Button. A suitable location should:

- Be at the base of the climbing wall
- Be on a flat section of the climbing wall
- Be easily accessible by a climber preparing to climb the route
- Allow access for the Battery Pack to be removed
  - The Battery Pack tray slides out of the bottom of the Base Button

## STEP 2: CREATE HOLE FOR CABLES TO PASS THRU

The cable on the back of the Base Button must pass through the climbing wall to complete connections on the back side of the climbing wall.

Head Rush recommends removing a T-Nut from the climbing wall to reveal a 7/16" hole and feed the Base Button Cable through the hole to the back side of the climbing wall.



## NOTE

If access to the back side of the wall is limited or if removing a T-Nut is not an option, a 7/16" hole must be drilled from the front side of the wall to gain access to route the Base Button Cable to the back side of the wall.



## STEP 3: PRE-DRILL THE MOUNTING HOLES (OPTIONAL)

Use the Base Button Backer to mark and pre-drill the three (3) mounting holes for the Summit Button. The center hole aligns with the 7/16" hole created in the previous step.



## NOTE

The Base Button Backer is facing forward when the word "TRUBLUE" is readable as shown in the image below. The top of the Base Button Backer can be used to ensure level mounting.



## STEP 4: MOUNT THE BASE BUTTON

Run the Base Button Cable through the Base Button Backer and place the Base Button Backer flush with the back of the Base Button.



Run the Base Button Cable through the climbing wall and align the Base Button as desired.



## NOTE

Use the top of the Base Button to ensure level mounting.





Screw the Summit Button to the climbing wall using three (3) of the included wood screws.





## NOTE

Any #10 flat head screws can be used in place of the wood screws if the wall material requires a different type of screw.

## STEP 5: CONNECT THE Y-CABLE SPLITTER TO THE BASE BUTTON CABLE

Align the pins in the Base Button Cable to the sockets in the Y-Cable Splitter Cable End. Press the Y-Cable Splitter End onto the Base Button Cable. Screw the Cable End onto the Base Button Cable until finger tight. Take care to only turn the silver piece of the Cable End to avoid damaging either the Base Button Cable or the Y-Cable Splitter.







## STEP 6: CONNECT THE 20 M COMMUNICATION CABLES TO THE Y-CABLE SPLITTER

Align the pins in the Y-Cable Splitter to the sockets in one of the 20 m Communication Cables.



## NOTE

Either one of the 20 m Communication Cables can be connected to either one of the Y-Cable Splitter Ends.

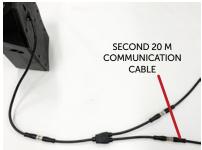
Press the Y-Cable Splitter End onto the 20 m Communication Cable. Screw the Y-Cable Splitter End onto the 20 m Communication Cable until finger tight. Take care to only turn the silver piece of the Y-Cable Splitter End to avoid damaging either the 20 m Communication Cable or the Y-Cable Splitter.

Repeat Step 6 for the remaining 20 m Communication Cable.









## 6.0 BATTERY PACK INSTALLATION

The Battery Pack is located in the Battery Tray of the Base Button and is accessible using the Battery Removal Tool. An attempt to remove the Battery Pack using any other object may result in damage to the Battery Pack or the Base Button.

## STEP 1: RELEASE THE BATTERY TRAY

Insert Battery Removal Tool into the slots on the front of the Base Button.



Press in until the Battery Tray slides out of the Base Button.



## NOTE

An empty Battery Tray may not slide out fully on its own. Pull down lightly on the Battery Tray to slide out fully.



## STEP 2: CONNECT THE BATTERY PACK CABLE TO THE BASE BUTTON POWER CABLE

Install the Battery Pack in the Battery Tray and connect the Battery Pack wire to the Base Button Power Cable.



## NOTE

Ensure that all of the Communication Cable connections have been made and are secure before connecting the Battery Pack Cable.



## STEP 3: SECURE THE BATTERY TRAY

Slide the Battery Tray back into the Base Button until the Battery Tray clicks into place.



## 7.0 BATTERY PACK REMOVAL

The Battery Pack is located in the Battery Tray of the Base Button and is accessible using the Battery Removal Tool. An attempt to remove the Battery Pack using any other object may result in damage to the Battery Pack or the Base Button.

## STEP 1: RELEASE THE BATTERY TRAY

Insert Battery Removal Tool into the slots on the front of the Base Button.



Press in until the Battery Tray slides out of the Base Button.



## STEP 2: DISCONNECT THE BATTERY PACK CABLE TO THE BASE BUTTON POWER CABLE

Disconnect the Battery Pack wire from the Base Button Power Cable and remove the Battery Pack from the Battery Tray.



## STEP 3: SECURE THE BATTERY TRAY

Slide the Battery Tray back into the Base Button until the Battery Tray clicks into place.



## 8.0 SYSTEM CHECK

Perform a system check to ensure all cables are properly connected and that the Catch-and-Hold feature is functioning correctly. If any of the below steps do not function as described, consult the Troubleshooting Section of the Operator Manual.

## STEP 1: CONNECT THE BATTERY PACK WIRE TO THE BASE BUTTON POWER WIRE

Install the Battery Pack in the Battery Tray and connect the Battery Pack wire to the Base Button Power Cable.



## NOTE

Ensure that all of the Communication Cable connections have been made and are secure before connecting the Battery Pack Cable.





## NOTE

If the Battery Pack Wire is already connected to the Base Button Power Wire, disconnect the wires and reconnect to perform the System Check.

## STEP 2: WAIT FOR THE SYSTEM TO COMPLETE ELECTRONIC CHECK

After connecting the Battery Pack to the Base Button, the electronics will automatically run through an electronic check and report back the results via colored flashes of the LEDs. The electronics will perform an electronic check every time the Battery Pack is connected. See table below for electronic check report information.



## NOTE

The LEDs may show a short flash the moment that the Battery Pack is plugged in. This immediate flash is not the electronic check. The electronic check will take approximately 1-2 seconds to complete.



Electronic Check Reports					
LED Indicator	Decription of Report				
LEDs flash Green	Electronic Check - OK				
LEDs flash Yellow	Battery Level Low				
LEDs flash Red	Battery Level Critically Low — Catch-and-Hold mode is unavailable				
LEDs do not flash	Electronic Check error – Refer to Troubleshooting section of the Operator Manual				

## STEP 3: ADJUST THE PRESET HOLD TIME

Press and Hold the Aluminum Bezel of the Base Button for 5 seconds.



After 5 seconds the LEDs will flash White to indicate the preset hold time. Continue holding the Base Button until the desired number of flashes is reached, then release the Base Button to select the Preset Hold Time. The table below shows the relationship between the number of flashes and the Preset Hold Time in the order that the flashes will appear. The TRUBLUE iQ+ will come from the factory with a Preset Hold Time set at 15 seconds.



## NOTE

The Preset Hold Time can be adjusted at any time. Refer to the Operator Manual for details.

Number of LED Flashes	Preset Hold Time (seconds)
2	20
3	30
1	15

## STEP 4: ACTIVATE CATCH-AND-HOLD MODE

Activate Catch-and-Hold Mode by pressing the Aluminum Bezel of the Base Button. Catch-and-Hold Mode is active when the LEDs are pulsing Blue.



## STEP 5: PULL ON WEBBING TO SIMULATE A FALL

Pull on the webbing to simulate a climber falling. The TBiQ+ Auto Belay should sense a fall and automatically enter Hold Mode. Hold Mode is active when the LEDs are solid Blue.

## STEP 6: ALLOW THE WEBBING TO RETRACT TO SIMULATE CLIMBING

Allow the webbing to retract into the device approximately 1 meter. The TBiQ+ Auto Belay should sense upward movement (retraction of the webbing) and automatically disengage Hold Mode and revert to Catch-and-Hold Mode. Catch-and-Hold Mode is active when the LEDs are pulsing Blue.



## NOTE

The webbing must retract a certain distance before Hold Mode will disengage. If the webbing was only pulled a short distance in Step 5, there may not be enough webbing travel available to disengage Hold Mode. If this happens, repeat Step 5 but extend the webbing slowly approximately 1 m before pulling on the webbing to simulate a fall.

## STEP 7: PULL ON WEBBING AND HOLD

Pull on the webbing to simulate a climber falling. The TBiQ+ Auto Belay should sense a fall and automatically enter Hold Mode. Hold Mode is active when the LEDs are solid Blue. Continue pulling on the webbing until the Preset Hold Time expires (15, 20, or 30 seconds as set in Step 3). Just before disengaging Hold Mode, the TRUBLUE iQ+ Auto Belay will enter Countdown Mode. Countdown Mode is active when the LEDs are flashing Blue.

## STEP 8: ALLOW THE PRESET HOLD TIME TO EXPIRE

After the Preset Hold Time has expired (15, 20, or 30 seconds as set in Step 3), Hold Mode will automatically disengage and the TBiQ+ Auto Belay will enter Normal Mode.

## CONGRATS!

Your TRUBLUE iQ+ Auto Belay is now ready for use. The only things left to do are clip in, activate Catch-and-Hold Mode, and start climbing. Welcome to the future of auto belaying!

## REGISTER YOUR DEVICE



# **NOTES**





## **REGISTER YOUR DEVICE**

Get automatic updates on recertification and product information – visit **www.headrushtech.com/register** 

## ANNUAL RECERTIFICATION IS REQUIRED

Please keep the shipping box for your device. For instructions on annual recertification, visit **www.headrushtech.com/annual-service** 

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