HELION

challenge

Owner's Manual & Technical Information

HLNB0127 Challenge EP Boat

Specification

Hull length:	14.96" (380mm)
Overall length:	17.5" (44.5mm)
Height:	3.93" (100mm)
Battery:	850mAh 7.4V Li-ion
Charger:	USB Li-ion DC charger
Transmitter:	2-channel, 2.4GHz
Hull material:	Molded ABS
Propeller size:	1.10" (28mm)
Motor:	Brushed, water-cooled 390

challenge

Contents

Introduction 3

FCC Information 3

Safety Precautions 3

Lithium Battery Warnings 4

Box Contents 5

Required to Complete 5

Transmitter Details 6

Battery Install & Charging 7

Preparing Your Boat 8

Low Voltage Cutoff 9

How to Operate Your Boat 9

After Running 10

Replacement Parts 10

Warranty, Support and Service 11

IMPORTANT! This radio control model is not a toy. It must be operated and flown according to these instructions and may cause serious injury to persons or damage to property if not used responsibly or if operated without due caution. Unsuitable for children under 14 years of age.

Introduction

If you're looking for an introduction to R/C boating, for yourself or perhaps to interest a younger member of the family, there's a very good chance you'll be looking for something that's not only Ready-to-Run, tough and easy to operate but that's also fast, agile and stylish. Nothing quite beats the thrill of tearing across the water at high speed and for this, along with all the reasons mentioned above, the Helion Challenge is the perfect choice.

Boasting a wave-cresting top speed coupled with proportional steering and forward / reverse throttle control, plus a 'get out of jail' self-righting capability, there's little this exciting all-inclusive package doesn't offer. In fact, all you need to add is 4 AA cells for the transmitter and you can be up and running in the time it takes to charge the supplied 2S 7.4V rechargeable LiIon battery. Beware though, put it on the water, show your friends and family, and they'll all want a go.

FCC Information

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use: USA, UK, AU and EU.

Safety Precautions

Failure to use this product in the intended manner as described in the following instructions can result in damage and / or personal injury. A Radio Controlled (RC) airplane is not a toy! If misused it can cause serious bodily harm and damage to property.

Keep items that could become entangled in the propeller away from the propeller, including loose clothing, tools, etc. Be especially sure to keep your hands, face and other parts of your body away from the propeller.

As the user of this product you are solely and wholly responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

This model is controlled by a radio signal that is subject to possible interference from a variety of sources outside your control. This interference can cause momentary loss of control so it's advisable to always keep a safe distance from objects and people in all directions around your model as this will help to avoid collisions and / or injury.

- Never operate your model if the voltage of the batteries in the transmitter is too low.
- Always operate your model in an open area away from obstacles, people, vehicles, buildings, etc.
- Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable batteries, etc.).
- Keep all chemicals, small parts and all electronic components out of the reach of children.
- Moisture causes damage to electronic components. Avoid water exposure to all electronic components, parts, etc. that are not specifically designed and protected for use in water.

Lithium Battery Warnings

IMPORTANT NOTE: Lithium Ion batteries are significantly more volatile than the alkaline, NiCd or NiMH batteries also used in RC applications. All instructions and warnings must be followed exactly to prevent property damage and / or personal injury as the mishandling of Li-Ion batteries can result in fire. By handling, charging or using the included Li-Ion battery you assume all risks associated with Li-Ion batteries. If you do not agree with these conditions please return the complete product in new, unused condition to the place of purchase immediately.

- You MUST charge the Li-Ion battery in a safe area away from flammable materials.
- NEVER, at any time, leave the Li-Ion battery unattended when it's being charged.
- When charging the battery you should ALWAYS remain in constant observation to monitor the charging process and react immediately to any potential problems that may occur.
- After discharging the battery you must allow it to cool to ambient / room temperature before recharging.
- To charge the Li-Ion battery you MUST use only the included USB charge lead or a dedicated proprietary 2S Li-Ion charger. Failure to do so may result in a fire causing property damage and / or personal injury. DO NOT use a NiCd or NiMH charger.
- We recommend charging the Li-Ion in a proprietary, fireproof, dedicated Li-Ion charge bag.

If at any time during the charge or discharge process the battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe for at least 15 minutes. Continuing to charge or discharge a battery that has begun to balloon or swell can result in a fire. A battery that has ballooned or swollen, even a small amount, must be removed from service completely.

For best results, store the battery at room temperature – approximately 68 – 77 °Fahrenheit (F) – and in a dry area.

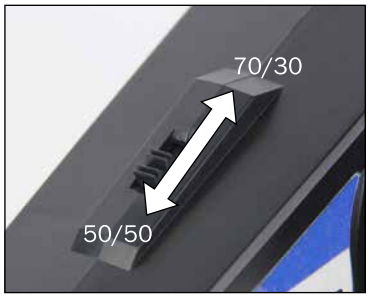
Contents

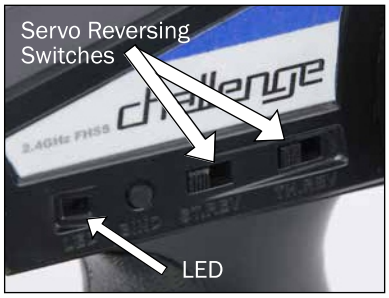
- 1 x Challenge RTR self-righting boat
- 1 x 2 Channel, 2.4GHz transmitter
- 1 x 2S 7.4V 850mAh Li-ion battery
- 1 x USB Li-ion DC charger
- 1 x Molded display stand

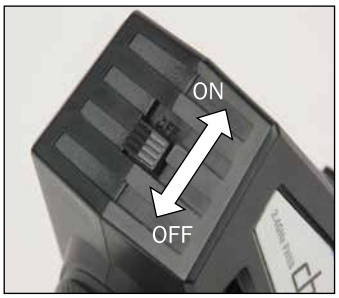
Required To Complete

- 4 x AA alkaline batteries for the transmitter

Transmitter Details







Adjust Dual Rates: for the steering channel. The 70/30 postion is High Rates and the 50/50 is Low Rates. When driving at high speed the low rates will reduce the chance of tipping over.

BIND FUNCTION

The Challenge radio system has an auto bind function. On powering up the transmitter the LED will repeatedly flash, this is now scanning for the receiver. Power up the Challenge boat with the supplied battery and the transmitter will emit a tone and the LED will change from flashing to a solid light. This is now bound and all functions should be working correctly.

Sevo Reversing Switches: If the direction of travel on the rudder is backwards, slide the steering reverse switch to the other position. Same principle for the throttle reverse.

Battery Install & Charging

1. Slide the battery hatch door off the transmitter and install 4-AA batteries (not included). Make sure to check the orientation of the cells, the correct orientation is indicated inside the battery hatch. Slide the battery hatch door back in place.

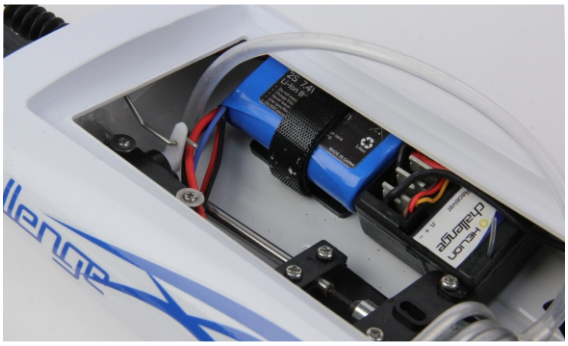
2. Locate the USB charger and the 850mAh Li-ion battery pack. Plug the USB charger into suitable USB power source and a red LED will light up, indicating power. Plug the female balance connector from the chrger into the male balance connector on the battery. When the charge is complete a green LED will light in addition to the red LED.

For faster charging we suggest purchasing a Radient charger.
The Mistral Charger (RDNA0465) is available at your local hobby retailer, or online

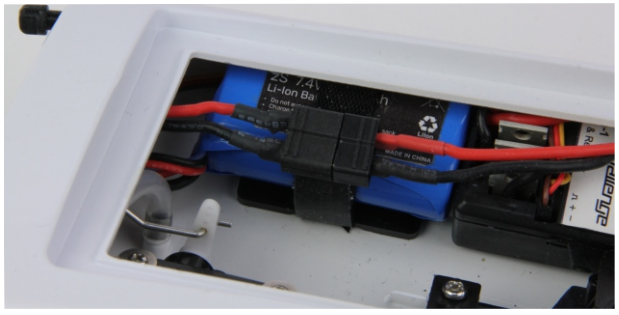
Preparing Your Boat

1. To acess the hull, turn the latch counter-clockwise 90° and remove the top of the boat (to lock, turn latch so it is parallel with the boat's orientation).

2. Slide your fully charged drive battery into the hull and attach to the hook-and-loop fastener in the hull.



3. With your transmitter turned on, plug the HCT battery connector into the 2-in-1's connector.



IMPORTANT

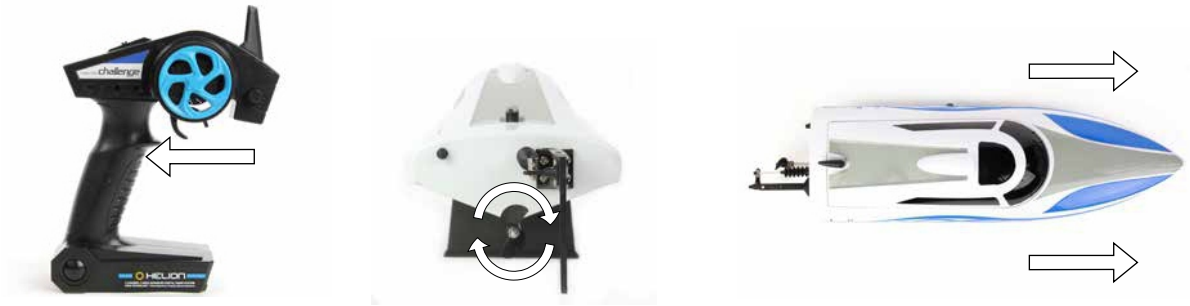
Always remember to keep the boat propeller away from any part of you or anyone else when connecting the battery. Once the battery is connected and the transmitter is bound the boat will operate according to any input from the transmitter.

Low Voltage Cutoff

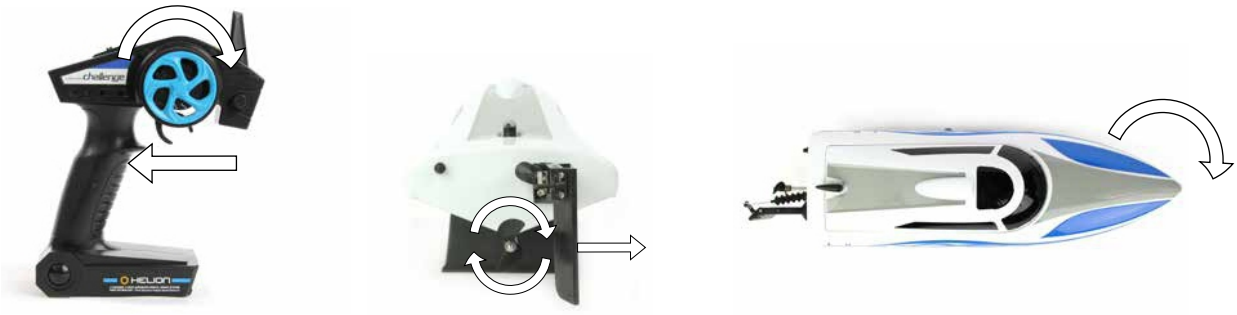
The Challenge speed contol is eqipped with a low voltage cutoff (LVC) circuit. When the Li-ion battery voltage drops too low, the speed control will shut off power to the motor. Motor function can be restored by cycling the throttle trigger off and then back on at a low power setting. At this point you should return the boat to shore and re-charge the drive battery. Repeatedly attempting to continue operation may drop the battery voltage to damaging levels.

How to Operate Your Boat

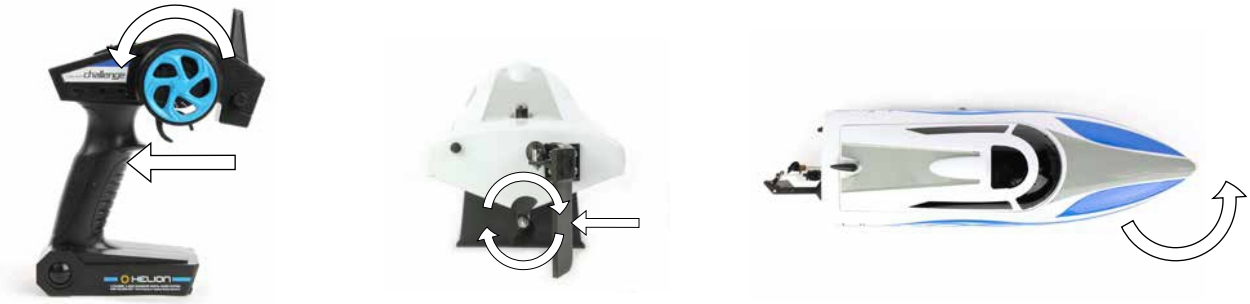
1. Place your boat in the water. Pull the throttle trigger towards you and back to neutral to arm the motor and then pull it towards you to make the boat go forward. The speed control is proportional, the farther you pull it the faster the boat will go. Release the trigger to stop.



2. To initiate a right turn, rotate the steering wheel clockwise while holding the trigger to the speed setting you desire.



3. To initiate a left turn, rotate the steering wheel counter-clockwise while holding the trigger to the speed setting you desire.



After Running

When you have finished running your Challenge is is important to follow these steps:

- Unplug the battery from the 2-in-1 unit.
- Turn off transmitter.
- Remove the battery from the boat.
- Wipe excess water off with a cloth.
- Always store the bat with the top hatch removed. This prevents mould and mildew growth.

Replacement Parts

HLNB0127 Challenge EP Boat

HLNB0128 Hull: Challenge

HLNB0129 Hull Cover: Challenge

HLNB0130 Hull Cover Switch Bolt: Challenge

HLNB0131 Water Cooling Tube: Challenge

HLNB0132 Rudder Push Rod: Challenge

HLNB0133 Rudder Set: Challenge

HLNB0136 Motor mount Extension: Challenge

HLNB0137 Brushed Motor 390: Challenge

HLNB0138 Motor Mount: Challenge

HLNB0139 Brushed Motor Coupler: Challenge

HLNB0140 Intergrated Electronics: Challenge

HLNB0146 Hollow Shaft Set: Challenge

HLNB0147 Propeller Shaft Set: Challenge

HLNB0148 Propeller: Challenge

HLNB0149 Waterproof Servo: Challenge

HLNB0150 Brushed Transmitter: Challenge

HLNB0153 LiIon 2s 7.4v mAh HCT: Challenge

HLNB0155 Prop Shaft Support: Challenge

Warranty, support and service (UK)

This product is covered by the current statutory guarantee regulations. If you wish to make a warranty claim, please contact the model shop where you originally purchased the product from. You should also present your proof of purchase.

- The guarantee does not cover faults or damage caused by:
- Incorrect handling or operation
- The use of incompatible accessories
- Modification or unauthorised repairs
- Accidental or deliberate damage
- Normal wear and tear
- Using the product outside of its stated specification

Firelands Group LLC accepts no liability for loss, damage or costs which are incurred due to the incorrect or incompetent use of the product.

CE Conformity Declaration

This device has been tested in accordance with the relevant harmonised European directives. This product's design fulfils the protective aims of the European Community relating to the safe operation of this equipment.
For a copy of the Declaration of Conformity, please visit:
www.helion-rc.com/support

Disposal

Electrical equipment marked with the crossed out wheelie bin symbol must not be disposed of in household waste, but must be taken to a specialist disposal or recycling system. In EU member countries, electrical equipment must not be discarded via the normal domestic refuse channels (WEEE - Waste Electrical and Electronic Equipment Directive 2002/96/EG). You should take unwanted electrical equipment to your nearest local authority waste collection point or recycling centre.

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