



CABLE CHIMP II REMOTELY-OPERATED CABLEWAY VEHICLE USER GUIDE AND WARRANTY





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INTRODUCTION

The Oceanscience Cable Chimp II is a remotely-operated cableway vehicle designed to provide slow, even, repeatable transects with Oceanscience Riverboats that have instrument wells up to 5 inches in diameter, in flows of not more than 3 m/s. Larger Oceanscience Riverboats can be used with the Chimp in flows lower than 1 m/s. The Cable Chimp is not intended for use with non-Oceanscience platforms.

OVERVIEW

The Cable Chimp II Basic System is comprised of the following components:

- Chimp II (Rover)
- 2.4 GHz transmitter
- 12V NiMH battery pack
- Charger to Rover adapter cable
- 2.4 Swivel Antenna
- 12V NiMH Battery Charger

An optional rugged, watertight carrying case is available as are spare battery packs and spare drive wheel kits.



The external components of the Cable Chimp II Rover are the drive wheel, idler wheels, pinch roller and tow eye (Figure 2). The main internal components are the motor assembly, FM radio receiver, electronic speed controller (ESC), and battery (Figure 3).

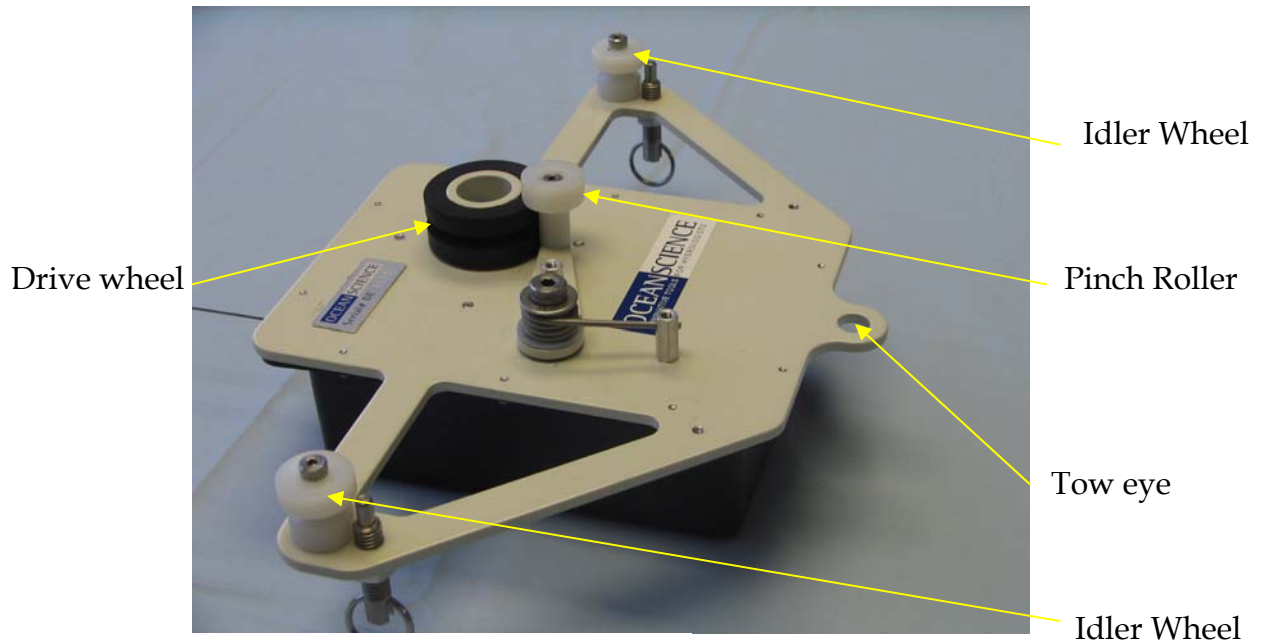


Figure 2

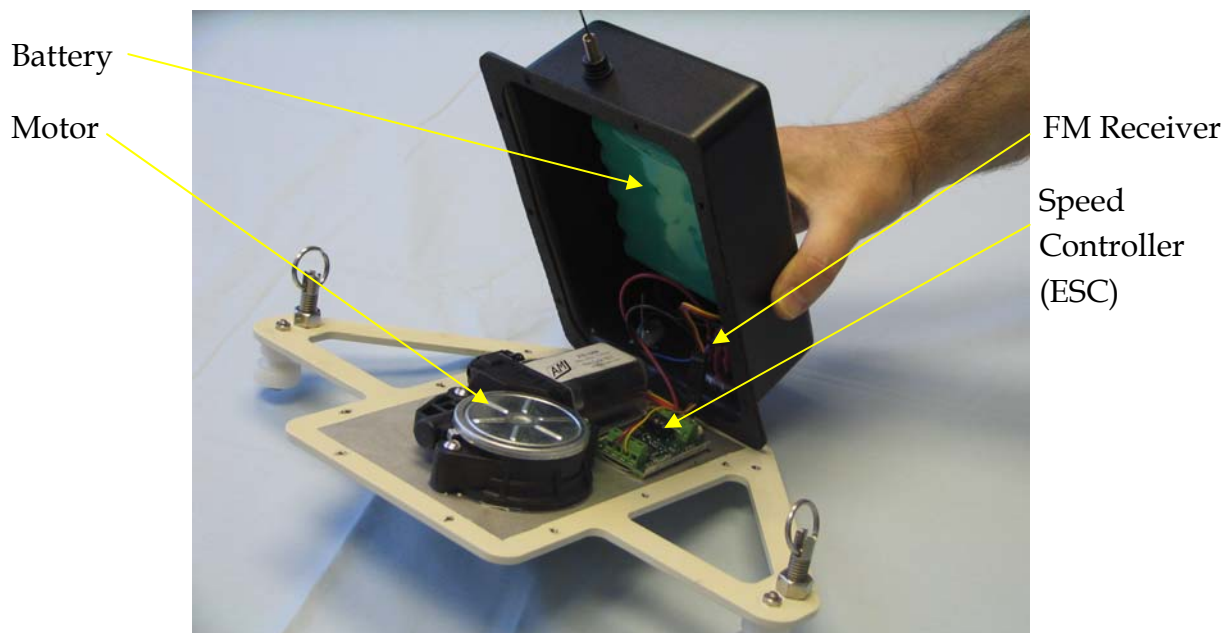


Figure 3

SETUP AND OPERATION

Screw the antenna into the RF bulkhead connector on the top of the case. To attach the Chimp to the line open both spring plungers by pulling them back and turning the ring 90° (Figure 4). Next, draw back the pinch roller (Figure 5) to allow the line to fit in the drive wheel groove. Release the pinch roller to capture the line in the groove. Then, position the line under the idler wheels and release the spring plungers to capture the line.

Note: Oceanscience recommends that a line stopper be firmly attached at the cross-stream end of any line that is not permanently secured. Oceanscience is not responsible for lost equipment or Cable Chimp damage due to submersion.

Using a carabiner or shackle, attach the Riverboat tether to the towing eye located at the bottom of the Cable Chimp frame.

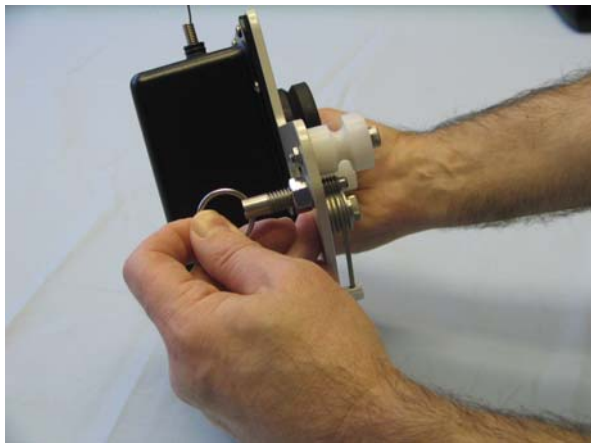
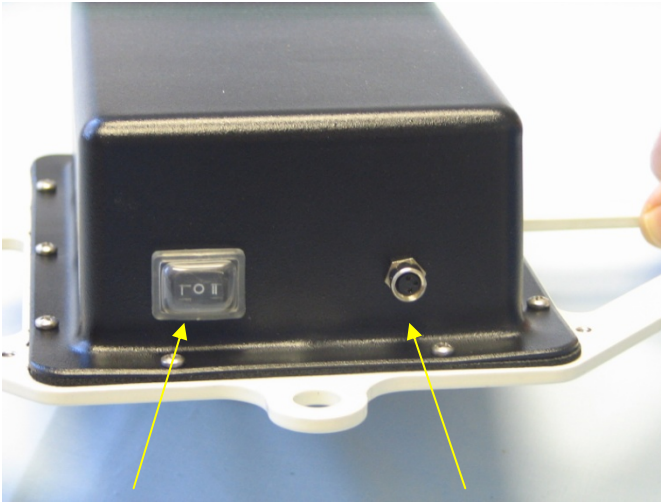


Figure 4



Figure 5

First, turn on the 2.4 GHz Transmitter and then turn on the Cable Chimp by moving the power switch to the "I" position (Figure 6). Confirm proper operation by gently moving the control wheel forward and back. Forward and reverse speeds are balanced by adjusting the trim knobs which are located on the remote control.



Power Switch

Charge Port

Figure 6

REMOTE CONTROL

Please refer to Transmitter's Instruction Manual (provided).





Power Management

The 2.4GHz transmitter is shipped with (8) non-rechargeable AA alkaline batteries. The transmitter panel has 2 LED lights indicating charge. A steady green light indicates full power and a flashing light indicates low power. See the Remote Control manual for battery replacement instructions.

The Cable Chimp battery is designed to be recharged inside the unit. To recharge, ensure that the Cable Chimp power switch is in position "II". Next, connect the charger to the Cable Chimp with the charging cable and plug the charger into any 110 VAC power source. The charger LED will turn green when the charge is complete.

To replace the Cable Chimp battery, remove the plastic cover by unscrewing the 10 cover screws (Figure 13) and gently lift the cover off (Figure 14.) Remove battery from Velcro fastener attached to the inside of the cover. Unplug the Molex 2 pin connector and replace the battery, (Oceanscience part number CCBNM). Secure the new battery with Velcro fastener, reconnect the Molex 2-pin connector and replace the plastic cover and screws. CAUTION: Do not over tighten the screws (Figure 15) as this can reduce the effectiveness of the case gasket against moisture.

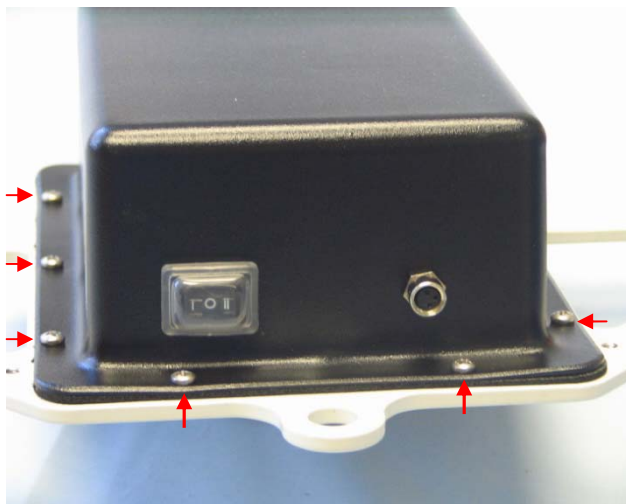


Figure 13

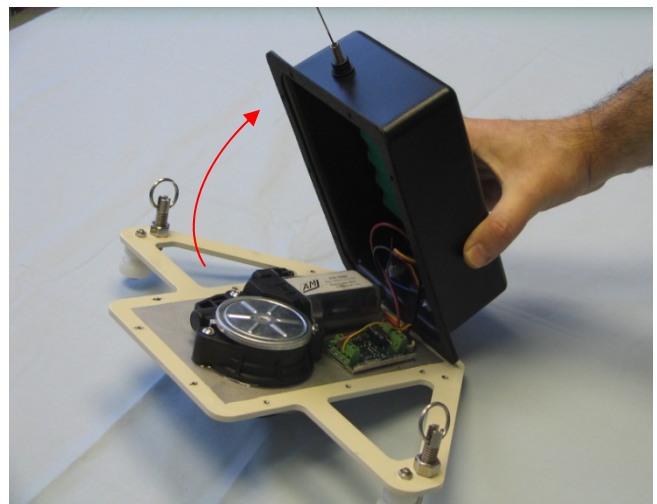


Figure 14

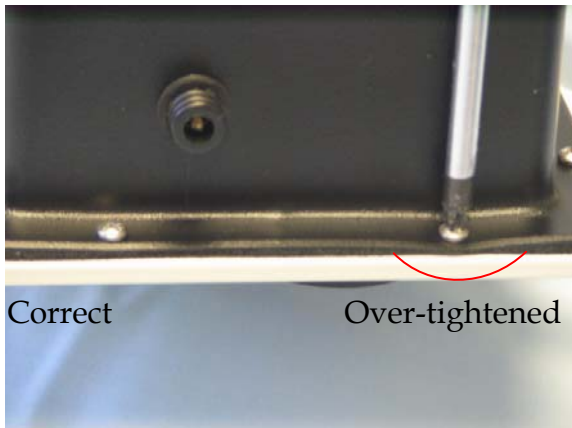
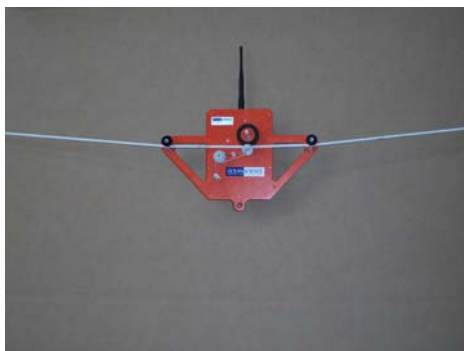


Figure 15

DEPLOYMENT CRITERIA

The Cable Chimp II drive wheel is designed for use with $\frac{1}{4}$ " (6mm) continuous filament, low stretch, three-strand polyester or Kevlar line. The line should be tight enough that the Cable Chimp II experiences no more than 8 degrees of slope.

The Cable Chimp II should not be used in areas where debris or standing waves are present.



Correct Deployment



Incorrect Deployment



SPECIFICATIONS

Performance

- Battery: NiMH
- Wall charger: 110V AC
- Battery endurance: >2 hours at full speed | >3 hours at half speed
- Transmitter range: 200 ft (60 m)

Construction

- Lightweight powder coated aluminum
- Stainless steel hardware
- 2.4 GHz 90deg. whip antenna
- Water resistant

Dimensions

- Length: 9.5 in (241 mm)
- Width: 14 in (356 mm)
- Depth: 4.5 in (114 mm)

Weight

With battery: 4 lbs, 13 oz (2.18 kg)



WARRANTY

The Oceanscience Group, Ltd makes every effort to assure that its products meet the highest quality, reliability and durability standards and warrants to the original purchaser or original purchasing agency that each product be free from defects in materials or workmanship for a period of one year from date of shipment.

Warranty does not apply to defects due directly or indirectly to misuse, negligence or accidents, repairs or alterations outside of our facilities, or use other than described in this guide.

Oceanscience is not responsible for loss of mount or instruments, damage to property, injury or death associated with the use of any of its products or products that may be included or used with Oceanscience products.

All warranty services are FOB Oceanscience's facility in Oceanside, CA.

To take advantage of this warranty, contact Oceanscience at 760-754-2400 or info@oceanscience.com.