ABOUT THE HYDRA COBRA 6

Motors	Please note that while the Hydra Cobra 6 is capable of handling incredible amounts of power, your motor must also be up for the task. Always run your motor within the manufacturer's specs. Monitor motor, battery, and controller temps carefully and never let the motor get above 100° C (212° F). Excessive heat in the motor can damage the motor, the Hydra Cobra 6, and the batteries.
Prop Size	Always start with a smaller prop size. If you wish to change the prop, motor, or battery, check your temperatures often on the first run. If the electronics get too hot, decrease the prop pitch or diameter, or reduce the pack voltage.
Programming	The Hydra Cobra 6 features a fully programmable Castle feature set using the included FREE Castle Link V4 USB adapter and freely downloadable NEW Castle Link Windows™ software. (Windows 10+ required). It also offers convenient transmitter programming for six common adjustable settings including cutoff voltage and drag brake. During the optimization of your setup it is critical to check motor and ESC temperatures after making adjustment. We recommend the use of the data log as you progress with the feel and power of the vehicle.
Data Logging	The Hydra Cobra 6 features data logging. You will be able to measure and record important power system information during your race, turn by turn. After your run, you can download and analyze this log using the Castle Link USB adapter. You will be able to inspect many parameters including battery voltage, motor RPM, ESC temperature, and more. Additional information about using data logging features can be found in the Driver's Ed Guide ("Data Logging").

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Product Support: castlecreations.com/contact-support
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HYDRA COBRA 6

WATER-COOLED MARINE SPEED CONTROL

QUICK START GUIDE

OVERPOWERING RC SINCE 1997 castle

HYDRA COBRA 6 SPECIFICATIONS

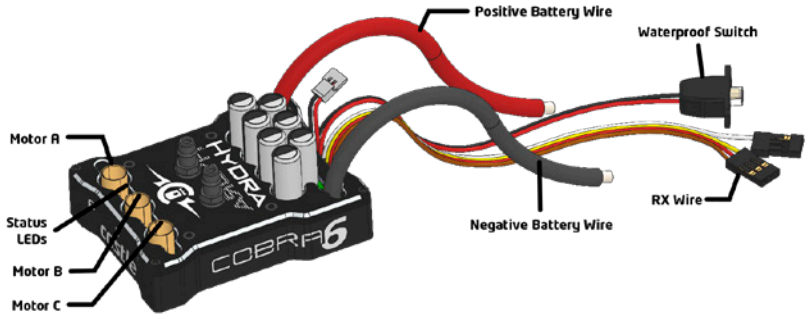
Application Guidelines	Hobby boats up to 36"
Input Voltage Range	Min: 2S LiPo, Max: 8S LiPo, 33.6V
BEC Specs	5.0V - 8.0V adj. in 0.1V incr. (8A Peak), default 5.5V
Sensors	Yes, with optional Sensor Harness (P/N 011-0108-00)
Product Use Statement	• Applying voltages higher than 33.6V will cause irreparable damage to your controller. • The Hydra Cobra 6 is a high-performance controller; you must use high-discharge cells in your high-performance application to ensure vehicle performance (see Driver's Ed Guide, "A Word About Batteries"). • The Hydra Cobra 6 requires the use of connectors designed for 150+ amps continuous. Ex. Castle 6.5mm polarized or 6.5mm bullet (Driver's Ed Guide, "Connectors and Power Wiring"). • The Hydra Cobra 6 is not intended for human or animal propulsion.

*Failure to adhere to the Product Use Statement constitutes a violation of the warranty agreement, and will result in non-warranty service fees to repair or replace damaged products.

GETTING STARTED

1. Solder a high quality battery connector to the ESC (see *Driver's Ed Guide "Connectors and Power Wiring"*).
2. Mount the ESC and motor into the vehicle.
3. Connect motor to the ESC (see *Driver's Ed Guide, "Motor Wiring"*).
4. Plug in the RX wire into throttle (#2) and AUX wire into auxillary (#3/#4).
5. Calibrate your ESC to your radio. (See *below*).

YOU ARE NOW READY TO GO!



THROTTLE CALIBRATION

1. Radio on, battery plugged in, ESC off.
2. Hold full throttle, turn ESC on (green LED).
3. When red LED flashes, go to full reverse.
4. When yellow LED flashes, go to neutral.
5. Armed and ready!

HYDRA COBRA 6
WATER-COOLED MARINE SPEED CONTROL

DRIVER'S ED GUIDE

For more detailed information regarding Getting Started, Throttle Calibration, using Castle Link, or Transmitter Programming, please read the Driver's Ed Guide by visiting:

https://www.castlecreations.com/hydracobra6

You can also use your smart device's camera and this QR code to open the link.

RECEIVER CONNECTION

RX Wire	Plug the RX wire into the throttle (#2) channel on your receiver.
AUX Wire	The AUX wire allows you to adjust a setting "on-the-fly" using an auxiliary channel on your receiver. The AUX wire function is disabled by default and is programmable via Castle Link. Plug this wire into the auxiliary (#3/#4) channel on your receiver.

TRANSMITTER PROGRAMMING REFERENCE

1.Brake/Reverse Type
- • With Reverse
- • • Without Reverse*
- • • • Crawler Reverse

2.Voltage Cutoff
- • Auto-Lipo*
- • • None

3. Brake Amount
- • 25%
- • • 50%*
- • • • 75%
- • • • • 100%

4. Drag Brake
- • Disabled*
- • • 10%
- • • • 20%
- • • • • 30%
- • • • • • Crawler Full On

5. Motor Type
- • Brushless*
- • • Brushed Reversing

6. Motor Direction
- • Normal*
- • • Reverse

**Default Setting*

AUDIBLE ALERT REFERENCE

• •	Start Fail
• –	Low Voltage Cutoff
– •	Over-Current
• • •	Sensors Lost
• • –	Radio Glitch
• – •	Over-Temperature
• – –	Excessive Load
– • •	AUX Wire Radio Glitch
– • –	BEC Over-Temperature