

PROGRAMMING INTERFACE

Description

This programming interface will allow you to change all the settings related to the electronics in your scooter. All Dive-Xtras scooters now use the same electronics and we program the differences in the settings. Therefore there are many settings you can change and some you should note. The settings you should NOT change are listed below in the section “ Default Settings(DO NOT CHANGE)”

Note

The electronics and software used by Dive Xtras scooters is manufactured by the company Castle Creations. When you start to use the programming interface and software you will see many references to Castle Creations and its products. Please do not be confused by this, as you connect your scooter the software will change to be specific to Dive Xtras.

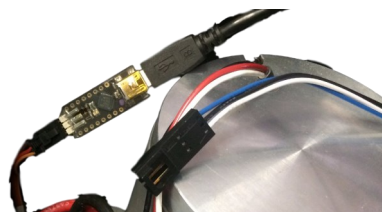
The software has a restore defaults option, but as we use the electronics on all scooters it may not restore them for your specific model. For your reference all the settings for your scooter are listed below.

Features

1. Change settings on your scooter electronics
 - A. Number of gears
 - B. Start gear
 - C. Speed of individual gears
 - D. Acceleration rate
2. Collect data about your scooter during the dive.

Installation instructions:

1. Install Software(Castle Link) from QR code found on brochure or from DiveXtras website.
2. Once installation is complete, connect the adapter to your USB Port.
3. Your computer should detect the new hardware. Drivers will automatically be installed.
4. Run the Castle Link application from the Start Menu.
5. Follow the on-screen instructions to complete installation.



Programming instructions:

1. Connect programming interface to computer with USB & start Castle Link software
2. Unplug battery from scooter
3. Disconnect reed switch from electronics
4. Connect programming interface to scooter electronics as shown in picture. Make sure orientation is correct
5. Connect scooter to battery
6. Software will display scooter setting, modify as needed
7. Disconnect battery
8. Disconnect programming interface and reconnect reed switch.

System Requirements

The software is compatible with Windows, Macintosh users may take advantage of software such as Parallels Desktop, VMware Fusion or Apple's Boot Camp, provided the Macintosh has an Intel processor Macintosh installation is not supported by Dive-Xtras.

Default Settings (DO NOT CHANGE)

The electronics has certain default settings that are specific to that version of scooter. They should not be changed or your scooter may be damaged.

Piranha

◇ 2015—Gear Drive

Firmware Version: 4.06

◇ 2016- Current—Belt Drive

Firmware Version:4.10

◇ Lithium Models

Low Voltage Cutoff: 30V

◇ NiMh Models

Low Voltage Cutoff: 35V

Maximum Gear: 67%

PROGRAMMING INTERFACE

Default Settings (DO NOT CHANGE) CONTINUED ...

CUDA

◇ All Models

Firmware Version: 4.10

◇ NiMh Models

Low Voltage Cutoff: 35V

◇ Lithium Models

Low Voltage Cutoff: 30V

Echo, Frisco and Sierra

◇ All Models

Firmware Version: 4.06

◇ NiMh Models

Low Voltage Cutoff: 20V

◇ Lithium Models

Low Voltage Cutoff: 30V

Do not exceed 62.5% on any gear to avoid overheating the motor

Default Settings (CAN BE CHANGED)

The following settings are the defaults your scooter will have been supplied with. They are listed below for your reference. The software has a restore defaults option, but as we use the electronics on all scooters it may not restore them for your specific model.

Piranha (Lithium Models)

Starting Gear: 3

Ramp Rate: Medium (16)

Gear 1: 25% Gear 5: 67%

Gear 2: 35% Gear 6: 78%

Gear 3: 45% Gear 7: 89%

Gear 4: 56% Gear 8: 100%

Piranha (NiMh Models)

Starting Gear: 3

Ramp Rate: Medium (16)

Gear 1: 25% Gear 4: 56%

Gear 2: 35% Gear 5: 67%

Gear 3: 45%



Default Settings (CAN BE CHANGED) CONTINUED...

CUDA (Lithium Models)

Starting Gear: 3

Ramp Rate: Medium (16)

Gear 1: 25% Gear 5: 67%

Gear 2: 35% Gear 6: 78%

Gear 3: 45% Gear 7: 89%

Gear 4: 56% Gear 8: 100%

CUDA (NiMh Models)

Starting Gear: 3

Ramp Rate: Medium (16)

Gear 1: 12.5% Gear 5: 62.5%

Gear 2: 25% Gear 6: 75%

Gear 3: 37.5% Gear 7: 87.5%

Gear 4: 50% Gear 8: 100%

Sierra (NiMh Models)

Starting Gear: 3

Ramp Rate: Medium (16)

Gear 1: 25% Gear 4: 75%

Gear 2: 37.5% Gear 5: 100%

Gear 3: 50%

Sierra , Echo & Frisco (Lithium Models)

Starting Gear: 1

Ramp Rate: Medium (16)

Gear 1: 12.5% Gear 4: 50%

Gear 2: 25%

Gear 3: 37.5%

Do not exceed 62.5% on any gear to avoid overheating the motor

Dive Xtras Inc.

11520 Airport Road

Everett WA 98204

+(1) 425 296 6570

info@dive-xtras.com

