# SIDEWINDER NANO SPECIFICATIONS

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|---|---|
| **Applications:** | 1:24 scale RC hobby vehicles weighing up to 1lb. |

## TECHNICAL SPECIFICATIONS

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|---|---|---|---|
| **Input voltage:** | **MIN:** 2S LiPo | **MAX:** 3S LiPo | 12.6 V |
| **BEC Specs:** | 5V output; 5A peak | | |
| **Dimensions:** | **Width:** 15.5mm | **Length:** 28mm | **Height:** 9.3mm |
| **Weight:** | w/wires: 0.35 oz (10.0 g); w/o wires: 0.1 oz (2.9g) | | |
| **Supported Motor Types:** | Sensorless brushless and brushed. | | |

## ITEMS NEEDED FOR OPERATION OR INSTALLATION

### Programmability:

Fully programmable Castle feature set using a Castle Link USB adapter (sold separately) and free downloadable Castle Link Windows software.

**B-Link Bluetooth adapter for Apple iOS and Android.**

### Connectors:

Battery and motor connectors sold separately.



This is a high power product with the potential to be very dangerous. Please read the safety information before use. This product may contain chemicals known to the State of California to cause cancer and or birth defects or other reproductive harm.



castlecreations.com

**Designed and assembled in Olathe, Kansas USA**



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**P/N: 010-0176-00**

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featuring CRYO DRIVE

SIDEWINDER

# NANO

1:24 SCALE

MICRO SENSORLESS BRUSHLESS AND BRUSHED ESC

OVERPOWERING RC SINCE 1997

castle™

## ABOUT SIDEWINDER NANO

### Motors

Please note that while Sidewinder Nano 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 180°F. Excessive heat in the motor can damage the motor, the Sidewinder Nano, and your batteries.

### Gearing

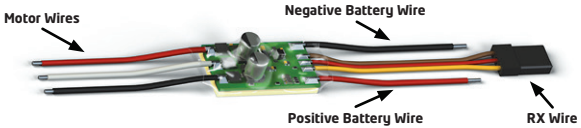
Always start with stock gearing. If you wish to change the gearing, motor, or battery, you must check your motor temperature frequently on the first run. If the motor gets too hot, reduce the pinion size, increase the spur size, or reduce the pack voltage.

### Programming

Sidewinder Nano is programmable via your transmitter, Windows® based PC, and a Castle Link USB adapter (sold separately), or B-Link Bluetooth® for Apple iOS and Android (purchased separately). See the Driver's Ed Guide for more instructions on transmitter programming and the Castle Link system ("Transmitter Programming" and "Tuning with Castle Link").

### DRIVER'S ED GUIDE

For more detailed information regarding getting started, throttle calibration, using Castle Link, or transmitter programming please visit the resource center ***www.castlecreations.com/SidewinderNanoResources*** or scan the QR code.




### 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 the RX wire into the receiver.
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!

### AUDIBLE ALERT REFERENCE

| | |
|---|---|
| • • | Start Fail |
| • – | Low Voltage Cutoff |
| – • | Over-Current |
| • • – | Radio Glitch |
| • – • | Over-Temperature |
| • – – | Excessive Load |

### 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

**Default Setting*