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Corally C-54011

Corally COR54011 TOROX 185A Brushless - 2-6SS Speed Controller

User Manual

INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Corally COR54011 TOROX 185A Brushless 2-6SS Speed Controller. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

The Corally TOROX 185A ESC is designed for high-performance RC applications, offering robust power delivery and advanced programmability for various motor and battery configurations.

PRODUCT OVERVIEW



Image: The Corally COR54011 TOROX 185A Brushless Speed Controller, showcasing its red housing, integrated cooling fan, and robust gold-plated motor and battery connectors. The unit features a Team Corally logo on the side.

The TOROX 185A ESC is a powerful electronic speed controller featuring a durable red casing, an integrated cooling fan for thermal management, and multiple connection points for motor and battery. It supports both sensored and sensorless brushless motors (in sensorless mode) and is designed for 1/8th scale RC vehicles.

SAFETY PRECAUTIONS

- Always disconnect the battery from the ESC when not in use.
- Ensure proper polarity when connecting batteries to avoid damage.
- Operate in a well-ventilated area to prevent overheating.
- Keep away from water unless specifically designed for waterproof operation (this model has water protection).
- Do not attempt to disassemble or modify the ESC.
- Use appropriate motor and battery combinations as specified to prevent overload.

SETUP AND INSTALLATION

1. Mounting the ESC

Securely mount the ESC in your vehicle using double-sided tape or screws, ensuring good airflow around the unit for effective cooling. Avoid mounting near heat sources or in enclosed spaces.

2. Motor Connection

Connect the three motor wires from your brushless motor to the corresponding gold-plated terminals (A, B, C) on the ESC. Ensure a secure connection. For sensored motors, connect the sensor wire to the sensor port on the ESC and motor.

3. Battery Connection

Connect your battery pack to the XT90 connector on the ESC. This ESC supports 2-6S LiPo or 9-18 Cell NiMH batteries. Always double-check polarity before connecting.

4. Receiver Connection

Plug the ESC's receiver cable into the throttle channel (usually Channel 2) of your RC receiver. The BEC (Battery Eliminator Circuit) provides power to the receiver and servos.

5. Calibration

Before first use, calibrate the ESC with your radio transmitter. Refer to your transmitter's manual for specific calibration steps. Generally, this involves turning on the transmitter, holding full throttle, turning on the ESC, waiting for beeps, moving to full brake, waiting for beeps, and then returning to neutral.

OPERATING INSTRUCTIONS

Powering On/Off

- To power on: Ensure the transmitter is on, then connect the battery to the ESC.
- To power off: Disconnect the battery from the ESC.

Programming the ESC

The TOROX 185A ESC is programmable. An optional Hobbywing LED programming card can be used for easier parameter adjustment. Key programmable parameters include:

- **Throttle Mode:** Forward/Reverse (with programmable reverse lockout)
- **Drag Brake:** 0-16% adjustment
- **Battery Mode:** NiMH/LiPo selection
- **LiPo Cut-off Voltage:** Programmable to protect LiPo batteries from over-discharge.
- **Thermal Protection Temperature:** Set at 105°C or 125°C.
- **BEC Voltage:** 6V or 7.4V.

Refer to the specific programming card manual for detailed instructions on how to change these settings.

MAINTENANCE

- **Cleaning:** Regularly clean the ESC and cooling fan to remove dirt and debris. Use a soft brush or compressed air.
- **Inspections:** Periodically inspect all wires and connectors for signs of wear, damage, or loose connections.
- **Storage:** Store the ESC in a dry, cool place away from direct sunlight and extreme temperatures.
- **Water Protection:** While this ESC features water protection, it is not designed for prolonged submersion. Always

dry the unit thoroughly after exposure to moisture.

TROUBLESHOOTING

Problem	Possible Cause	Solution
ESC does not power on.	Battery not connected, low battery voltage, faulty connection.	Check battery connection, charge battery, inspect wires.
Motor not responding.	Incorrect calibration, motor wires loose, receiver not connected.	Recalibrate ESC, check motor and receiver connections.
ESC overheats.	Poor ventilation, motor/gear ratio too high, incorrect timing.	Improve airflow, adjust gear ratio, check motor timing.
Erratic operation.	Radio interference, loose connections, damaged sensor wire.	Check radio system, secure all connections, inspect sensor wire.

SPECIFICATIONS

Parameter	Value
Model	COR54011 (C-54011)
Max. Continuous Current	185 A
Max. Burst Current	950 A
Input Voltage (LiPo)	2-6S (11.1-22.2 V)
Input Voltage (NiMH)	9-18 Cell
Motor Limit (4S LiPo)	3000 Kv (5892 size motor)
Motor Limit (6S LiPo)	2400 Kv (5892 size motor)
BEC Voltage	6V / 7.4V (Programmable)
BEC Current	0-25 A
Programmable	Yes (via optional Hobbywing LED card)
Thermal Protection	105°C / 125°C (Programmable)
Water Protection	Yes
Cooling Fan	30x30x10 mm
Motor Connector	6.5 mm female
Battery Connector	XT90 connector
Battery Wire Size	10 AWG
Recommended Use	1/8th scale RC vehicles
Weight	Approx. 250 g (0.55 lbs)

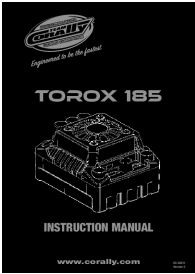



WARRANTY AND SUPPORT

For warranty information and technical support, please contact Corally customer service or visit their official website. Keep your proof of purchase for warranty claims.

Note: Specific warranty terms may vary by region and retailer.

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Model: C-54011

Related Documents - C-54011

	<p>Team Corally TOROX 185 ESC Instruction Manual</p> <p>Comprehensive instruction manual for the Team Corally TOROX 185 Electronic Speed Controller (ESC), detailing setup, calibration, programming, and troubleshooting for 1/8th scale RC vehicles.</p>
	<p>Corally CT3P Advanced FHSS 2.4GHz Radio Control System Instruction Manual</p> <p>Comprehensive instruction manual for the Corally CT3P Advanced FHSS 2.4GHz Radio Control System, covering setup, operation, functions, safety precautions, and warranty information.</p>
	<p>Team Corally TOROX 185-LE ESC Instruction Manual</p> <p>Comprehensive instruction manual for the Team Corally TOROX 185-LE Speed Controller, covering setup, calibration, programming, and troubleshooting for RC vehicles.</p>
	<p>Team Corally Kronos XTR Quick Start User Guide</p> <p>Comprehensive quick start and user guide for the Team Corally Kronos XTR RC car, covering setup, operation, maintenance, safety precautions, and warranty information. Includes detailed instructions for assembly, electronics installation, and car settings.</p>



[Team Corally Asuga XLR Buggy 4WD 1/8 Instruction Manual](#)

Comprehensive instruction manual for the Team Corally Asuga XLR 4WD 1/8 scale RC buggy. Includes setup, operation, maintenance, safety precautions, warranty information, and parts lists.