



# 550-SL BRUSHLESS MOTOR

## Introduction

Congratulations on your purchase of the Reedy 550-SL Brushless Motor. The latest brushless motor technology along with the design and engineering experience that is responsible for 28 World Championship titles has been incorporated into its design.

Due to its sensorless design, the Reedy 550-SL Brushless Motor operates powerfully and efficiently without complicated sensor harnesses. This motor is perfectly suited for use with ESCs that are designed to operate sensorless brushless motors.

## Features

- Oversized Precision Ball Bearings
- High-Torque 4-Pole Rotor
- Hardened 5mm Steel Shaft
- Triple-Insulated Windings
- Sensorless Operation
- 3.5mm Connectors
- Completely Rebuildable

Because no single motor works best in all vehicles and in all conditions, four models are available to suit any application. Be sure to visit [www.reedypower.com](http://www.reedypower.com) for the latest application and gearing charts for each model and to view a complete list of spare and option parts.

**Please read the following before installing and using your new motor.**

## Precautions and Warnings

- Please read the instructions before installing and operating your motor.
- Avoid over gearing by monitoring motor temperature. Operating temperatures should not exceed 80C (175F).
- Be sure to use the proper size motor mounting screws.
- Do not over-tighten the motor mounting screws.
- Do not use a Schottky diode with this motor.

## Installation and Maintenance

- Your motor should be installed using 3mm screws with a length (generally 6mm or less) that does not allow the screw to extend into the motor more than 5mm. Otherwise, the screw can damage the motor's internal components.
- Do not over-tighten the motor mounting screws. Doing so may strip the mounting hole threads.
- Connect the three leads exiting the motor to the three motor leads from your Electronic Speed Control (ESC). If the motor runs backwards when giving it forward throttle, reverse any two motor leads. The motor will now turn in the desired direction.
- To clean your motor, lightly brush dirt away on a regular basis paying particularly close attention to the areas around the ball bearings. DO NOT spray cleaners or solvents into the motor.

## Caution

When switching to a higher voltage battery from a lower one (to 11.1V from 7.4V, for example), a change in gear ratio or a lower kV motor might be necessary. Otherwise, the motor or ESC may overheat and sustain permanent damage. Please visit [www.reedypower.com](http://www.reedypower.com) for the latest gear ratio suggestions for your particular motor and vehicle.

## Safety Precautions

This product is a sophisticated hobby product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or property. This product is not intended to be used by children without direct adult supervision. It is essential to read and follow all instructions and warning found in this manual prior to installation, set up, and use in order for the product to operate properly and to avoid damage or injury.

## Specifications

Model	550-SL 3500kV	550-SL 4000kV	550-SL 4400kV
Item No.	924	925	926
Cells	2-3 LiPo, 4-8 NiMH	2-3 LiPo, 4-8 NiMH	2LiPo, 4-6 NiMH
RPM/Volt	3500	4000	4400
Diameter	36mm	36mm	36mm
Length	55mm	55mm	55mm
Weight	210g/7.4oz	200g/7.1oz	190g/6.7oz
Shaft Diameter	5.0mm	5.0mm	5.0mm
Max. Efficiency Current	10-45A	10-50A	10-55A
Max. Surge Current	55A/60s	60A/60s	65A/60s
Internal Resistance	6.5mΩ	6.2mΩ	6.0mΩ

## Warranty

Your motor is warranted to the original purchaser for 30 days from the date of purchase against defects in material and workmanship. Motors that have been mishandled, abused, used incorrectly, used for an application other than intended or damaged by the user are not covered under warranty.

Associated Electrics Inc. is not liable for any loss or damage, whether direct or indirect, incidental or consequential, or from any special situation, arising from the use, misuse, or abuse of this product.

#909	Replacement Rotor 550-SL
#924	Reedy 550-SL 3500kV Motor
#925	Reedy 550-SL 4000kV Motor
#926	Reedy 550-SL 4400kV Motor
#927	XP SC700-BL/Reedy 550-SL 3500kV Combo
#928	XP SC700-BL/Reedy 550-SL 4000kV Combo
#929	XP SC700-BL/Reedy 550-SL 4400kV Combo



**Associated Electrics, Inc**  
**26021 Commercentre Dr.**  
**Lake Forest, CA 92630 USA**  
[www.teamassociated.com](http://www.teamassociated.com)  
[www.rc10.com](http://www.rc10.com)  
[www.reedypower.com](http://www.reedypower.com)

**call: (949) 544-7500**  
**fax: (949) 544-7501**