



# 540R BRUSHLESS MOTOR

## Introduction

Congratulations on your purchase of Reedy's 540R 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 540R 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.

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

## Features

- Oversized Precision Ball Bearings
- High-Strength Rotor
- Hardened Steel Shaft
- Triple-Insulated Windings
- Sensorless Operation
- 3.5mm Connectors



## 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	540R 3300kV	540R 3900kV	540R 4900kV	540R 6100kV
Item No.	916	917	918	919
Cells	2-3 LiPo, 6-8 NiMH	2-3 LiPo, 4-8 NiMH	2-3 LiPo, 4-8 NiMH	2-3 LiPo, 4-8 NiMH
RPM/Volt	3300	3900	4900	6100
Dimensions	36x46mm	36x46mm	36x46mm	36x46mm
Shaft Diameter	3.17mm	3.17mm	3.17mm	3.17mm
Max. Efficiency Current	10-40A	10-45A	10-50A	10-55A
Max. Surge Current	45A/60s	50A/60s	55A/60s	60A/60s
Internal Resistance	20mΩ	16mΩ	12mΩ	8mΩ
Weight	190g/6.7oz	190g/6.7oz	190g/6.7oz	190g/6.7oz

## Warranty

Your motor is warranted to the original purchaser for 90 days from the date of purchase, verified by the sales receipt, 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.

#916	Reedy 540R 3300kV Motor
#917	Reedy 540R 3900kV Motor
#918	Reedy 540R 4900kV Motor
#919	Reedy 540R 6100kV Motor
#936	XP SC450-BL ESC w/Reedy 3300kV Motor
#937	XP SC450-BL ESC w/Reedy 3900kV Motor
#938	XP SC450-BL ESC w/Reedy 4900kV Motor
#939	XP SC450-BL ESC w/Reedy 6100kV Motor
#29141	XP SC450-BL Brushless ESC



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