

SONIC

540.DR

COMPETITION BRUSHLESS
DRAG RACING MOTOR

INTRODUCTION

Congratulations on your purchase of Reedy's Sonic DR Competition Brushless Drag Racing Motor. The Sonic DR is designed specifically for drag racing with features that create a performance advantage in this unique racing discipline. Like all Reedy motors, the latest brushless motor technology along with the engineering experience that is responsible for 30 World Championship titles has been incorporated into its design.

FEATURES

- CNC machined lightweight can
- Drag racing specific stator
- Low-resistance, silver plated solder tabs
- Optimized air cooling
- Dual precision ball bearings
- Drag racing specific balanced rotor
- High-strength magnet
- Adjustable timing
- Completely rebuildable
- Competition proven

WARNING: The Sonic 540.DR uses an internal design that does not meet ROAR/EFRA/BRCA/IFMAR specifications. It is not legal for use in competitions sanctioned by these organizations.

Please read the following before installing and using your new 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.
- Solder the three leads from your Electronic Speed Control (ESC) noting the A, B, and C connections. Do not allow solder to bridge the gap between each connection.
- Plug the sensor cable into the motor and ESC sensor ports.
- To clean your motor, lightly brush dirt away on a regular basis paying particularly close attention to the area around the ball bearing. Occasionally add a small drop of bearing oil. DO NOT spray cleaners or solvents into the motor.

WARRANTY

Due to the competition nature of this product, this motor is warranted to the original purchaser to be free from defects in material and workmanship at the time of purchase. 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.

SPECIFICATIONS

Cells.....	2S LiPo
Diameter (mm).....	35.9
Length (mm).....	50.3
Shaft Dia. (mm).....	3.15
Weight (g).....	170



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

GEARING AND TIMING

The correct gear ratio depends on several factors, so it is impossible to determine an exact ratio for any particular motor. Your best option is to consult with other racers in your class or the dealer from which you bought your motor to determine a good starting gear ratio. Or you can visit www.reedypower.com for an up-to-date gearing and application chart. Reedy representatives are also available by calling the customer service telephone number on the website.

Timing can be adjusted by loosening the three screws and rotating the aluminum end cap. Rotating the end cap counter-clockwise adds timing which increases the motor's RPM. Be aware that by adding timing, motor temperatures will increase and battery duration will decrease. Motor longevity may be compromised. Those with limited motor tuning experience should leave the timing at the factory setting.

27470	Sonic 540.DR 2.5 Motor
27471	Sonic 540.DR 3.0 Motor
27472	Sonic 540.DR 3.5 Motor
27473	Sonic 540.DR 4.0 Motor
27474	Sonic 540.DR 4.5 Motor
27475	540.DR Mod Rotor 13.5*5*24.2mm
27420	M4/S+/DR Aluminum Timing Screw Set
27421	M4/S+/DR Aluminum Case Screw Set
27455	540-M4/DR Sensor Board
27456	540-M4/DR Ball Bearing Set

Visit www.reedypower.com for a complete list of tuning rotors, spare parts, and complete list of specifications.



Associated Electrics, Inc. declares that this product complies with the essential requirements and other relevant provisions of the European directive 2014/53/EU.



The crossed-out wheeled bin means that within the European Union the product must be taken to separate collection at the product's end of life. Do not dispose of these products as unsorted municipal waste.



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