

VX4 / VX4R

1/10 4-POLE SENSORLESS BRUSHLESS MOTOR

INTRODUCTION

The VX4/VX4R Series 4-pole sensorless brushless motor is the ultimate in engineering design from Viper R/C Solutions, Inc. Our commitment to quality and exhaustive street and track testing ensure that VX4/VX4R Series sensorless brushless motors give you the most enjoyable and the best value power system.

Please read the following instructions carefully before installing your new VX4/VX4R motor.

PRECAUTIONS

- **GEAR RATIO.** Before you install your VX4/VX4R series motor, refer to your vehicle's instruction manual for recommended spur and pinion gear ratios. An improper gear ratio setting can generate heat that may damage both your motor and ESC.
- **GEAR MESH.** Always make sure the gear mesh is set up properly before you run the vehicle. A gear mesh setup that is too tight or too loose can damage the gears and motor shaft.
- **MONITOR THE HEAT.** It is important to avoid overheating any motor or ESC. Always monitor the temperature of both the motor and the ESC during testing and after a run on the track. Improper gear and timing setups are very often the causes of this problem. Never run the motor above 180°F as this could weaken the motor's magnet and cause permanent damage. This will also void your product's warranty.
- **ESC SUPPORT.** VX4/VX4R Series 4-pole sensorless brushless motor is designed to have the best performance with Viper R/C Copperhead series ESC.

SPECIFICATIONS

| Model | VX4.39 | VX4R.45 | VX4R.51 |
|--------------------------|---------------------|------------------|------------------|
| Class | 540 | 550 | 550 |
| KV | 3900KV | 4500KV | 5150KV |
| Max Voltage | 2~3S Li-Po/12.6V | 2S Li-Po/8.4V | 2S Li-Po/8.4V |
| Support Vehicle Weight | ≤ 6 lb | ≥ 6 lb | ≥ 6 lb |
| Case Length (inch/mm) | 2.08" / 52.8 | 2.38" / 60.4 | 2.38" / 60.4 |
| Case Diameter (inch/mm) | 1.42" / 36 | 1.42" / 36 | 1.42" / 36 |
| Shaft Diameter (inch/mm) | 0.12" / 3.17 | 0.20" / 5.00 | 0.20" / 5.00 |
| Weight (oz/g) | 7.72oz / 219 | 8.89oz / 252 | 8.89oz / 252 |

PRODUCT WARRANTY

Your Viper VX4/VX4R series motor is guaranteed to be free from defects in materials and workmanship for a period of 180 days. Your **original receipt** showing the item and the date and place of purchase is required with your warranty service application. A motor that is found to have been mishandled, abused or used incorrectly, including use in an application other than that for which the motor is intended, will not be covered under the warranty. Viper R/C Solutions, Inc. has no control over the use of the motor application. Viper R/C Solutions, Inc. is not liable for any loss or damage, whether direct or indirect, incidental, or consequential, or any situation from the use, misuse or abuse of the product. Your VX4/VX4R series motor is not a toy. This motor is not intended for use by a child under age of 14 without adult supervision. The VX4/VX4R motor generates a lot of power that could result physical injuries. By setting up, connecting or operating the product, the user accepts all related liabilities.

SERVICE & SUPPORT

1. All requests for warranty service require the original proof of purchase showing the item, date, price, and dealer info.
2. For service, please visit www.viper-rc.com and follow the service instructions for the quickest turnaround time.
3. For all technical questions, please visit www.viper-rc.com for the corresponding FAQ, or e-mail your question to technical.support@viper-rc.com.