



# DIAMONDBACK MX540/550

## 1/10 4-POLE BRUSHLESS MOTORS

### PRECAUTIONS

1. Make sure all three motor leads are properly attached using provided bullet connectors
2. Only run motor in vehicle, not free spinning.
3. MX540 (5000kv) and MX550 (4200kv) are only designed for 2s operation.
4. MX540 (4000kv) and MX550 (3500kv) can be used with 3s, but lower gearing is suggested.
5. Monitor temperature during runs to maintain proper performance. Temperatures should not exceed 160 degrees Fahrenheit (70 degrees Celsius).
6. Only use compressed air to clean motor, do not spray with liquid.
7. Motor is not considered waterproof.

### SPECIFICATIONS

	MX540 4000KV	MX540 5000KV	MX550 3500KV	MX550 4200KV
Class	540	540	550	550
KV	4000KV	5000KV	3500KV	4200KV
Max Voltage	2~3S Li-Po/12.6V	2S Li-Po/8.4V	2~3S Li-Po/12.6V	2S Li-Po/8.4V
Support Vehicle Weight	≤ 6 lb	≤ 6 lb	≥ 6 lb	≥ 6 lb
Case Length	50mm	50mm	60mm	60mm
Case Diameter	36mm	36mm	36mm	36mm
Shaft Diameter	3.17mm	3.17mm	5.00mm	5.00mm
Weight	169g	169g	250g	250g

### SERVICE & SUPPORT

1. All requests for warranty service require the original proof of purchase showing the item, date, price, and dealer info. Warranty is not transferable.
2. For warranty service, please visit <http://hadma.com> and follow the service instructions for the quickest turnaround time. Or call us at 1-866-2068558.

## OPERATION & GEARING

1. See included gear chart for general operating area. These are not exact as track length, car weight, batteries and driving style can effect heat. Always monitor with a temp gun.
2. Adjust gear ratio to avoid going over 160°F (70°C) for desired run time, excessive heat can cause damage to your motor.
3. Longer vehicle is run, higher temperatures are possible. If longer runs are wanted, use lower pinion.
4. If attempting to use 3s battery with MX540 (4000kv) and MX550 (3500kv), use lowest pinion gear to start.

Model	MX540						MX550					
	4000KV/2S		4000KV/3S		5000kv/2S		3500 KV/2S		3500KV/3S		4200 KV/2S	
	spur	pinion	spur	pinion	spur	pinion	spur	pinion	spur	pinion	spur	pinion
<b>1/10 2wd Buggy</b>												
Electrix Boost 2wd	87	12-20	87	12-13	87	12-16	x	x	x	x	x	x
Helion Criterion	78	12-20	78	12-13	78	12-16	x	x	x	x	x	x
Associated B4, B5 series	87	12-20	87	12-14	87	12-18	x	x	x	x	x	x
Traxxas Bandit	90	12-18	90	12-13	90	12-16	x	x	x	x	x	x
Losi 22 series	88	12-20	88	12-13	88	12-18	x	x	x	x	x	x
Durango 2wd series	87	12-20	87	12-13	87	12-18	x	x	x	x	x	x
Serpent 2wd series	86	12-20	86	12-13	86	12-18	x	x	x	x	x	x
<b>1/10 Touring Car</b>												
Vaterra V100-S	77	22-28	77	22-23	77	22-26	x	x	x	x	x	x
Traxxas Rally	x	x	x	x	x	x	54	15-19	54	14-15	54	13-17
Associated Pro Rally	x	x	x	x	x	x	47	11-15	47	10-11	47	10-14
Associated Apex	66	23-28	66	23-24	66	23-25	x	x	x	x	x	x
HPI Sprint 2	90	23-28	90	23-24	90	23-26	x	x	x	x	x	x
<b>1/10 Trucks-SC &amp; Monster Truck</b>												
Associated T4, T5 series	87	12-16	87	12	87	12-15	x	x	x	x	x	x
Associated SC10 RTR	87	12-16	87	12	87	12-15	x	x	x	x	x	x
Electrix Series Trucks	87	12-19	87	12	87	12-16	x	x	x	x	x	x
Helion Dominus 10 SC 4wd SC	x	x	x	x	x	x	50	14-16	50	13-14	50	14
Losi SCTE series	x	x	x	x	x	x	40	11-17	45	10-11	40	11-15
Traxxas Slash 2wd Series	90	12-18	90	12	90	12-16	x	x	x	x	x	x
Traxxas Slash 4wd Series	x	x	x	x	x	x	54	11-16	54	10-11	54	11-15
Traxxas Rustler 2wd	90	12-20	90	12	90	12-16	x	x	x	x	x	x
Traxxas Stampede VXL	90	12-21	90	12	90	12-18	x	x	x	x	x	x
Traxxas Stampede VXL 4x4	x	x	x	x	x	x	54	9-17	54	9-10	54	9-15
Axial Yeti	x	x	x	x	x	x	68	11-17	68	10-11	68	11-14
Axial Wraith	90	10-27	90	10-12	90	10-20	x	x	x	x	x	x
HPI Blitz/Blitz RTR	88	12-18	88	12-13	88	12-16	x	x	x	x	x	x

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### PRODUCT WARRANTY

Diamondback MX Series motors are guaranteed to be free from defects in materials and workmanship for a period of 120 days. Your **original receipt** showing the item, the date and place of purchase is required with your warranty service application.

**Stator** = Failure of stator from factory would occur first time motor is used. Once it's been run, only failure would occur due to high internal temperatures.

**Endplates and Screws** = Over tightening, using a screw more than 8mm in length to mount motor, or incorrect size thread (3mm only) is not covered.

**Rotors** – Freewheeling a motor can cause excessive heat and even cause a rotor to explode. Damaged caused to the rotor during operation like landing a jump or contact, are not covered und warranty.

**Ball Bearings** – proper cleaning and maintenance is required, can not be controlled once unit is sold, not covered under warranty.

Motor arrives assembled correctly, any failure of parts due to disassembly by the owner are not covered under warranty.

Maclan Racing has no control over the use of the motor with other electronic devices such as speed controls and batteries. Maclan Racing 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 Diamondback motor is not a toy. This product is not intended for use by a child under age of 14 without adult supervision. The Diamondback 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. **Once the Diamondback Series motor has been properly installed and operated it certifies material and workmanship from factory.**