

# SPEC RACER CAR CLASS RULES

Legal chassis are: BSRT G3/G3R/G3RS/G3RSB, Slottech T1/T2/T3, Wizzard Storm/Fusion, Viper V1, RPMs Ghost Cat

1. The chassis must be stock, readily available, “HOPRA Approved” and cannot be machined, sanded or cut except to provide the following:
  - a. Add, remove, or re-add body mounts.
  - b. Reinforce and/or replace pickup tabs.
  - c. Add axle retainer.
  
2. All magnets shall remain in their stock location. No material or method may be used to restrict the movement of the magnets.
  - a. Only “HOPRA Approved” Compression Molded Ceramic Grade polymer traction and motor magnets may be used, see SPEC STOCK CAR CLASS RULES for specific manufacturer part numbers.

\*Magnets are listed by magnet manufacturer and may be used in all chassis adhering to class rules\*

Manufacturer	Part #	Description
BSRT	#277	G-Force C4 H-D Motor
	#290	G-Force C4 Motor
	#284	G-Force C4 Traction
Slottech	#81C	G6 Motor G6
	#86C	Traction
Wizzard	WS60	Stock Storm Motor
	WS61	Stock Storm Traction
	FS40	Fusion Level 4 Polymer Motor
	FS41	Fusion Level 4 Polymer Traction
Viper Scale Racing	12000	Pro 4 Motor
	12001	Pro 4 Traction
	22737	Pro 4 Maxi Traction

Manufacturer	Part #	Description
RPMs	RPMsHF-LDM4 RPMsHF-L4-T	Hyper-Force Level 4 Motor Hyper-Force Level 4 Traction

- b. The gauss reading of the traction or motor magnet shall not exceed the following criteria. This is taken after 5 min cool down period and at the lowest point on each magnet as it runs parallel to the rail. Any reading above these figures will be cause for disqualification or rejection at tech.

**TRACTION: 1680 gauss maximum MOTOR: 1250 gauss maximum.**

3. The guide pin can be a stock replacement. It may be glued in place but shall remain in any one of the stock positions.
4. The armature must be stock or a hot stock. The minimum ohmage allowed shall be 5.80.
5. There are no restrictions on the armature bushings or axles. Ball bearings are not allowed.
6. Gears ratio must be a 7-tooth pinion with a 23-tooth crown gear. No metal gears allowed.
7. The front wheels, tires and axles may be any readily available parts.
8. Rear tires shall be readily available non-coated solid silicone, rubber, or urethane replacement tires. Rear wheels shall be readily available double or single flanged replacement wheels.
9. Electrical systems shall be stock or stock replacement. Adjustable brush tension is allowed. Physically attaching brushes to springs (using glue or other substance) or spring arm is allowed. Plated parts are allowed. Shunts are not allowed.
10. The use of glue shall not be allowed on the chassis, magnets, or bulkheads. Body mounts, guide pin and armature bushings may be glued into place.