COMPRESSION MOLDED POLYMER MODIFIED CAR CLASS RULES

Legal chassis are: BSRT T2/G3/G3R/G3RS/G3RSB, Mattel/Tyco 440x2, Slottech Panther/Panther 02, Thundercat T3, T1X, Tomy AFX Super G+, 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 for the following:
   a. Add, remove or re-add body mounts.
   b. Mount any guide pin holder - guide pin shall remain in any one of the stock positions.
   c. Add armature bushings or ball bearings.
   d. Drill or cut holes for adjustable brush tension.
   e. The bottom surface of the chassis and bulkheads may be sanded flat. However, the bottom bulkhead tabs shall remain naturally connected to the end bells.
   f. The pickup retaining tabs on the chassis may be reinforced and/or replaced in their stock position. g. Add rear axle retainer.
   h. Add bulkhead/magnet clip retaining screws.
2. All magnets shall remain in their stock location.
   a. Only “HOPRA Approved” compression molded polymer magnets may be used, see below for specific manufacturer part numbers. Magnets may be sanded flat on the bottom surface only, so they are flush with the bottom surface of the chassis and bulkheads.
   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: 2300 gauss maximum MOTOR: 2000 gauss maximum

"HOPRA Approved" Compression Molded Polymer Magnets for Polymer Modified Car
Magnets are listed by magnet manufacturer and may be used in all chassis adhering to class rules

Manufacturer	Part #	Description
BSRT	#272	G-Force C4 Traction
	#263	G-Force P10 Motor
	#271	G-Force P10 Traction
	#278	G-Force P10 Traction G-Force
	#277	C4 H-D Motor
	#290	G-Force C4 Motor
	#284	G-Force C4 Traction
	#276	G-Force P10 H-D Motor
	#292	G-Force P10 Motor
	#286	G-Force P10 Traction
Slottech	#64	T3 Motor
	#81	G13 Motor
	#81C	G6 Motor
	#86	G13 Traction
	#86C	G6 Traction
	#62-1	PolyMax Motor
	#62-2	PolyMax Motor LW
	#67	PolyMax Traction
	#68	MegaFlux Traction

Manufacturer	Part #	Description
Slottech	#61	PolyMax Motor
	#66	PolyMax Traction
Wizzard	WS60	Stock Storm Motor
	WS61	Stock Storm Traction
	MHP60	High Level Storm Motor
	MHP61	High Level Storm Traction
	MHP67	Level 10 Storm Traction
	FS70	Fusion L10 Polymer Motor
	FS71	Fusion L10 Polymer Traction

Manufacturer	Part #	Description
Viper Scale Racing	12000	Pro 4 Motor
	12002	Pro 4 High Torque Motor
	12001	Pro 4 Traction
	12005	Pro 10 Motor
	12006	Pro 10 Traction
	12008	Pro 10 High Downforce Motor
	12007	Pro 10 High Torque Motor
	22738	Pro 10 Maxi Traction
RPMs	RPMsHF-LDM10	Hyper-Force Level 10 Motor
	RPMsHF-HDM10	Hyper-Force Level 10 HD Motor
	RPMsHF-L10-T	Hyper-Force Level 10 Traction

3. All magnets shall remain in their stock location.
4. The use of glue shall not be allowed on the magnets or to retain the magnets to the chassis. Other nonmagnetic materials may be employed to restrict the movement of the magnets. Any chassis clip used to hold the car together must not touch the magnets or affect the magnetic field.
5. Any type of armature shall be legal.
6. Electrical systems shall be stock or stock replacement. Adjustable brush tension is allowed.
7. Physically attaching brushes to springs (using glue or other substance) or spring arm is allowed. Plated parts are allowed. Shunts are allowed.
8. There are no restrictions on the armature bushings/ball bearings (may be glued in), guide pin, wheels, tires, gears and axles.