

Penalty/DQ Rule Update

5.13.10 Failure to abide by any and all lithium battery technology charge and discharge rules per section 8.3.2.5. At the discretion of the Race Director the first offense shall result in a round DQ and/or event DQ, and the second offense shall result in an event DQ. In the event of an event DQ the Executive Committee may review suspension of membership for a period of up to one year.

Lipo Battery Rule Updates

Add 1S lipo case dimensions and revise li-poly battery charging and discharging.

- 8.3.2.3 Lipo case dimensions:
- 8.3.2.3.1 The maximum 1s 3.7v brick/stick case:  
Length: 93.5 mm  
Width: 46.5 mm  
Height: 18.5 mm
- 8.3.2.3.2 The maximum 1s 3.7v saddle case:  
Length: T.B.D.  
Width: T.B.D.  
Height: T.B.D.
- 8.3.2.3.3 The maximum 2s 7.4v brick/stick case::  
Length: 139mm max  
Width: 47mm max  
Height: 25.1mm max
- 8.3.2.3.4 The maximum 2s 7.4v saddle case::  
Length: 71mm max  
Width: 48mm max  
Height: 32mm max
- 8.3.2.3.5 The maximum 4s 14.8v brick/stick case :  
Length: 165 mm  
Width: 52mm  
Height: 52mm
- 8.3.2.4 unchanged
- 8.3.2.5 Li-Poly Battery Charging and Discharging
- 8.3.2.5.1 Li-poly battery packs must be charged with chargers capable of the industry standard CC/CV (Constant Current/Constant Voltage) charge profile. No other charge profiles are permitted.
- 8.3.2.5.2 Li-Poly battery maximum charge voltage.
  - 1s Li-Poly batteries may be charged to a maximum of 4.24v.
  - 2s Li-Poly batteries may be charged to a maximum of 8.44v.
  - 4s Li-poly batteries may be charged to a maximum of 16.84v
- 8.3.2.5.3 Li-Poly battery maximum charge rate shall be 1C. C= charge amp rate. Charge amp rate = mAh capacity/1000=XAmps.

<b>mAh Capacity</b>	<b>1C</b>
3200mAh	3.2A
3300mAh	3.3A
3400mAh	3.4A
3600mAh	3.6A
3800mAh	3.8A
4000mAh	4.0A
4200mAh	4.2A
4600mAh	4.6A
4800mAh	4.8A
5000mAh	5.0A
5200mAh	5.2A

- 8.3.2.5.4 Maximum temperature for a charged li-poly battery pack shall be ambient temperature +/- 5 deg..
- 8.3.2.5.5 The use of heating devices of any type to heat a li-poly battery is strictly prohibited.
- 8.3.2.5.6 The use of cooling device and or freeze sprays of any type to cool a li-poly battery is strictly prohibited.
- 8.3.2.5.7 Overcharging/Overheating is defined as but not limited to the following:
- Charging of a li-poly battery with a charge profile other than CC/CV (i.e. NiCad/NiMh)
  - Charging at a charge rate higher than 1C
  - Charged battery voltage exceeding the max charge voltage per 8.3.2.5.2,
  - Heating of the li-poly battery beyond the max. charged temp and or the use of cooling devices to cool an overheated battery per 8.3.2.5.4., 8.3.2.5.5. and 8.3.2.5.6.
- Overcharging/Overheating will not be tolerated per section 5.13.10
- 8.3.2.5.8 All Lithium Polymer packs used for motor power must be charged or discharged inside a "Lipo Sack" or similar fire mitigation device proven to withstand a minimum of a 8.4v 5000mAh for 2s or 16.8v 5000 mAh for 4s Lithium Polymer pack failing destructively without showing external flame. Charging or discharging of multiple batteries in a single "Lipo Sack" is not allowed. Charging or discharging of multiple li-poly battery packs simultaneously shall be done with each battery in its own individual fire mitigation device.
- 8.3.2.6 Unchanged

1/12<sup>th</sup> Rule Update

Add rule 8.10.3.9

- 8.10.3.9. The use of a rollover antenna is permitted. Roll over antennas must have a blunt end/cap. Maximum height from ground 35 cm.

### World GT Updates

Revise typo in table 8.10.4.1. dimension "C" to be a "Minimum" control

Revise body rules for clarification of overall body height and rear body cut out height

#### 8.10.4.1. Dimensional specifications:

Item		Limit	Specification			
			Can-Am/GTP/WSC	GT/GT-1	World GT	
Length (B)		Maximum	22.05"			
Width		Maximum	9.875"		205 mm	
Height (C)		Maximum	3"	4"	N/A	
		Minimum	N/A	N/A	104 mm	
Wheelbase (A)		Minimum	11.0"			
		Maximum	9.0"		10.0"	
Weight			42.3 oz.		39 oz	
Wheels	Diameter	Maximum	2.0"			
		Minimum	1.625"			
	Width	Maximum	2.0"			
		Minimum	0.75"			
Tires	Diameter	Maximum	2.6"			
	Width	Maximum	2.0"			
		Minimum	.075"			
Rear Spoiler	Chord	Maximum	2.0"		N/A	
	Width	Maximum	9.875"		N/A	
Rear Wing (if fitted to the full size vehicle)	Chord	Maximum	Not Allowed	3.0"	45 mm	
	Width	Maximum	Not Allowed	9.0"	200 mm	
	Side dam	Length	Maximum	Not Allowed	3.0"	45 mm
		Height	Maximum	Not Allowed	3.75"	20 mm

#### 8.10.4.6.2 World GT body rules:

- Bodies must be based on production front engine - rear drive autos
- Body must be a replica of an original, 2 door sports/gt production car or based on a full sized auto which has been raced in a major series (Speed World Challenge, FIA GT Championship, ALMS GT1 + GT2, Japanese GT Championship, etc.)
- Bodies must be of a model year no older than 10 years prior to the year of submittal.
- Bodies deemed unrealistic or out of scale will not be approved. The burden of proof lies with the manufacturer to provide documentation for submitted bodies.
- Acceptable documentation for proof of scale realism shall be pictures of original 1:1 car from the top, front, rear and sides and or manufacturers dimensional data for production vehicle
- Overall roof height shall be measured with the car ready too run.
- The rear of the body must be trimmed no more than 40mm higher than the ground level with the body mounted
- Minimum dimension, center base of body windshield to intersection of hood and front grill 135mm
- Minimum body width at the base of the windshield 145mm
- Maximum body width: 205mm
- Minimum body material thickness .030" to be measured by a cut out in the upper rear or front windshield

### **Fuel Off-Road Monster Truck Rule Update**

Removal of wheel dimensions

#### 8.3.2.1 Dimensional Specifications:

Item		Limit	Specification			
			Monster Truck		1/8 Truck	
Engines (all OPEN, see 9.3)			.12 - .20	.21 - .28	.12 - .28	
Wheelbase (A)		Minimum	12.0"			
Weight		Minimum	96 oz.	152 oz.	144 oz (9 lbs)	
		Maximum	13 lbs. 6 oz			
Fuel tank capacity		Maximum	150 cc	175cc	150 cc	
Rear Wing	Side dam	Length	Maximum 92.07 mm			
		Height	Maximum 60.33 mm			
	Chord		Maximum	85 mm		
	Width		Maximum	217 mm		
Tires	Diameter		Minimum	5.40"		
	Width		Minimum	2.375"		