

# Strand 2009/2010 Rules

(Last Update 3/30/2010. Changes in Red.)

## General Rules

- Track Marshalling.** After racing, you must immediately place your car in the tech area and find a spot to track marshal. If you can't do it, you are responsible for finding a replacement.
- Bump-Ups.** B- Main winners will bump up to the A-Main. Pan Car classes will have 8 cars per main. All other classes will have 6 cars.
- Rough Driving.** Rough Driving will not be tolerated.
- Pulling Off to make Adjustments During the Race.** If you pull off the track to make an adjustment on your car during the heat and you decide to come back to the track, you must stay out of the way of anyone on a qualifying run or not force them to move over. If you pull off in the A-main, you stay off the track. (Oval Only)
- Illegal Parts or Motors.** No unapproved parts or motors allowed. First offense is a warning and loss of qualifying runs. Second offense will result of suspension for the rest of the day. Refusal to allow technical inspection is an automatic admission of guilt and you will be asked to no longer participate in the day of racing.
- Li-Po Inspection Procedure:**
  - Cars must be at the tech table 2 minutes before the end of the previous race with bodies off.
  - Cars will have the battery temperature checked with track temperature gauge.
  - Cars will have the battery voltage checked with the track volt meter. The track volt meter will have a Deans plug installed on it to ensure accurate and consistent readings.
  - After cars are teched, bodies will be put on and they must remain on the table until being placed on the track. Cars taken back to the pit table will **NOT** be allowed to race.
  - Battery Voltage.** Battery voltage will 4.22. Any battery reading 4.23 (.01 over) will be allowed to be run down in the tech area. If your battery reads 4.24 (.02 over), you will only be given one opportunity during heat racing to run it down in the tech area. Any battery reading 4.25 or higher (.03 or higher) will be disqualified. The second offence at 4.24 (.02 over) will also be disqualified.

## General Pan Car Rules

- MOTOR:**
  - Motors must NOT be frozen or cooled. Motors must be no less than 5 degrees below ambient temperature.
  - Motors may NOT have any material removed from the can, end bell, coil winding stacks, or any other motor component.
  - Sensor board must remain mounted in the stock location. No modifications or tampering with the sensor assembly is permitted.
  - Bearings may be replaced with steel or ceramic version of the same size.
  - Timing adjustments to the motor is allowed. You may only do so by loosening the three end bell screws and rotating the colored timing ring. The timing hash mark closest to the PCB board may not be rotated past the edge of the PCB tab. The full hash mark must be visible.
  - R.O.A.R. Approved motors only
  - If a motor tends to be a considerable advantage over all other motors, it may be deemed illegal even if it is ROAR legal. This is a cost saving measure to avoid forcing everyone to purchase a new motor just to be competitive. This will be evaluated on a case by case basis by the tech committee.
  - Motors will be teched with the RMS Resistance meter. Any motors with questionable numbers will be checked with an Inductance Meter. These are the allowable Minimum inductance Readings:

13.5	17.5	10.5
Novak - 21	Novak - 34	Novak -
Speed Passion - 21	Speed Passion - 34	Speed Passion -
Hacker - 19	Hacker - 33	Hacker -
Losi - 19	Losi - 33	Losi -
LRP - 22	LRP - 37	LRP -
Tekin - 19	Tekin - 33	Tekin -
Trinity - 19	Trinity - 33	Trinity -

- CHASSIS:** Any 1/10 scale direct drive chassis is allowed.

- BATTERIES:**

- 1 Cell Li-Po BATTERIES:
  - Batteries per TOUR Approved List:

Manufacturer	Products #	Decsription
Thunder Power	TP5000-1SPR	Thunder Power 5000mAh 40C Pro Race Pack
Thunder Power	TP5000-1SPR50	Thunder Power 5000mAh 50C Pro Race Pack
SMC	SMC 4025S	SMC Lightning Volts 4000mAh 25C High Performance Li-Po

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SMC	SMC 4900SC	SMC 4900mAh 40C SINGLE CELL 3.7v Li-Po
SMC	SMC 4950S	SMC C-MAX 4900mAh 50C High Performance Li-Po
Trinity	TRI20290	IP 5000MAH, 3.7V, 40C 1 CELL BATTERY PACK
Trinity	TEP2003	Team EPIC 1 Cell Racing Li-Po Pack, 5200mAh, 3.7V, 40C
Reedy	719	Reedy Li-Po 4600mAh 3.7V 40C
Fantom	FAN27600	Fantom 5000 Single Cell

- b. Maximum Battery Temperature: 10 Degrees over ambient temperature maximum and 5 degrees under ambient temperature. Batteries may NOT be cooled down with freeze spray or any other method to meet temperature tolerance. Any signs of battery cooling will result in making the racer sit out the race. Due to the nature of the batteries, this will not be tolerated for safety reasons.
- c. Maximum Battery Voltage: 4.22 Volts
- d. The stock Dean's Plug must be used on the battery. No batteries with inboard connectors.
- e. SMC batteries must have the original Labels intact. Any sign of tampering with the label or removal of mAh rating, with be cause for battery not being legal.

#### 4. BODIES:

- Nationwide Style
  - a. ROAR approved Bodies
  - b. Wings Allowed.
  - c. The back of the body may be cut out.
- COT Bodies.
  - a. Currently approved bodies are as follows:
    - Protoform COT (part #: 1230-30)
    - McAllister Charger COT (part #261)
    - McAllister Fusion COT (part #254)
    - McAllister Impala COT (part #249)
    - McAllister 190 COT (part #265)
  - b. Minimum roof height of 4 3/8".
  - c. The back of the body must be left in. No holes allowed in the back to allow better air flow.
  - d. Rear of body only trimmed as high as the trim line. No air relief holes above the trim lines in the rear. (i.e. leave rear of body in).
  - e. Wing must be stock OEM wing or Approved Molded OEM Replacement.
  - f. Wings MUST be on the car. Wings must be cut on stock lines. They are not allowed to be trimmed for less drag.
  - g. Wings must be on the car at the end of the race or will result in disqualification.
  - h. On a Protoform body, the wing must be screwed to the body's 2 molded-in wing struts. No raising or lowering of wing height.
  - i. On McAllister bodies, the wing mounts are molded into the wings. This OEM wing must only be used on a McAllister body. This wing must be mounted directly to the body. Aftermarket wings, with no molded in wing mounts/spacing may use a .25" spacer to get the wing to the same height as the OEM wing.
  - j. The wing must be molded plastic. No Home-made Wings. No additional wings or spoilers.
  - k. Spill plates can be home made, but must be the same shape and dimensions as the OEM spill plates.
  - l. There must be a minimum of 1/8" blunt edge of the "splitter" remaining on the body. This is to prevent raking the body and for the safety on corner marshals.

#### 5. SPEED CONTROL:

- Production Electronic Speed Controls Only.
- New Electronic Speed Controls must be available through major distribution channels for a minimum of 60 days before gaining final approval for Strand competition.
- The speed Controls for the 13.5 COT and 17.5 COT classes will be limited to Novak GTB, LRP Sphere, TC & SPX, and Tekin RS & RS Pro (version 200 software max.). **The Mamba Max Pro will be allowed, but the Cheat Mode MUST be turned off.** Any Speed Controls not listed must be Approved by the Strand Technical Team.

## 17.5 Single Cell COT

1. **WEIGHT: 37oz with Transponder**
2. **MOTOR: 17.5 ROAR Approved**
3. **BODY:**
  - COT Bodies Only.

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## 13.5 Single Cell COT

1. **WEIGHT:** 37oz with Transponder
2. **MOTOR:** 13.5 ROAR Approved
3. **BODY:**
  - COT Bodies Only.

## 13.5 Single Cell Pan Car

1. **WEIGHT:** 37oz with Transponder
2. **MOTOR:** 10.5 ROAR Approved
3. **SPEED CONTROL:**
  - Open Speed Control and Software.
4. **BODY:**
  - Nationwide Style Only.

## Breakout

1. **MINIMUM LAP TIME:** 4.0 (Laps below this time do not count)
2. **MOTOR:**
  - Any Brushed Motor
  - Any Brushless Motor
3. **CHASSIS:**
  - Any 10<sup>th</sup>, 12<sup>th</sup> or 18<sup>th</sup> Scale Carpet Style Chassis. (ex. Pan Car, Legend, Spec Car, etc.)
  - Maximum Car Width 11"
4. **BATTERIES:**
  - Open Battery
5. **BODIES:**
  - Any molded or home-made body.
  - No wings, unless it is a wing that comes with the body.
6. **CLASS OBJECTIVE:** This class is designed for the lesser experienced driver or the seasoned veteran. There will be a minimum lap time and anything below it doesn't count. The break out is to keep the competition close and keep the class as inexpensive as possible. If your car is "too fast" or "out of control", you will be asked to slow it down.

## Pro 1/18<sup>th</sup> Scale Late Models

1. **MOTOR:**
  - Associated Stock 370 Motor Part# 21210.
  - Motor to remain sealed.
  - No tweaking or zapping of the motor.
  - Must have Plugs on the Motor.
  - Motor Plates to fit the motor will be available at the track for \$5. Must use track purchased Motor Plate. No reaming out the motor plate to fit bigger gears.
2. **CHASSIS:**
  - Chassis must be the stock chassis that comes with the vehicle. No aftermarket chassis' or chassis stiffeners. No drilling or lightening of any of the parts.
  - No homemade parts.
  - Stock Shocks may be replaced with aftermarket Shocks.
  - Stock tie rods may be replaced with aftermarket tie rods or turn buckles to prevent breakage.
  - NO HOP-UPS except the Losi Ball Differential (LOS1125) or MIP Ball Differential (1555). The BRP front Chassis Brace is also allowed (BRP# 514).
  - Stock Bumpers and Rub Rails must remain intact.
3. **GEARS:**
  - 60 Tooth Spur. Open Pinion.
  - Spur Gear Cover must be removed and Spur Gear designation must be facing outward for easy teching purposes.
4. **BATTERIES:**
  - 6 Cell Batteries Only.

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- 1600mAh Maximum.
  - Batteries must have plugs. No soldering direct.
  - Unmatched Batteries Only.
  - Batteries MUST have a solid piece of shrink wrap so equalizing trays can't be used.
  - \$25 Battery Claimer Rule. The Strand can purchase a battery from any driver for \$25.
5. **TIRES:**
- Factory Rubber Tires.
  - Losi Slider Rear Tires allowed.
  - Inserts may be changed.
  - Stock Wheels Only.
  - Tape may be added to the right front tire to lessen traction and reduce snap rolling.
6. **BODIES:**
- Approved Bodies Only
  - Approved Bodies: Losi Late Model #LOSB138- & #LOSB1316. McAllister Batesville Late Model #259, Camaro Street Stock #266 & Impala COT #258. RJ Speed 09 Stock Car #1033.
  - Bodies must be cut on the body lines. Bodies can be raised to prevent rubbing but not trimmed.
7. **SPEED CONTROL:**
- Stock Speed Control Only.
8. **RADIO:**
- Any Radio allowed.

## 1/18<sup>th</sup> Scale Off-Road

1. **MOTOR:**
- Stock 370 Motor Part# 21210.
  - Motor to remain sealed.
  - No tweaking or zapping of the motor.
2. **CHASSIS:**
- Chassis must be the stock chassis that comes with the vehicle. No aftermarket chassis' or chassis stiffeners.
  - No homemade parts. Production aftermarket parts only.
  - Stock Width A-Arms only.
  - Approved Cars:  
RC18B  
RC18T  
RC18MT  
Trinity Blade  
Losi Mini T  
Radio Shack Pro-Pulse PRO-T100  
Radio Shack Pro-Pulse PRO-B100.
3. **BATTERIES:**
- 6 Cell Batteries Only.
  - 1600mAh Maximum.
  - Batteries must have plugs. No soldering direct.
  - Unmatched Batteries Only.
  - Batteries MUST have a solid piece of shrink wrap so equalizing trays can't be used.
  - \$25 Battery Claimer Rule. The Strand can purchase a battery from any driver for \$25.
4. **BODIES:**
- Any truck or buggy body.
  - Wings Allowed.
5. **SPEED CONTROL:** Any aftermarket brushed speed control allowed.

## Novice

1. **CHASSIS:** Any car or truck allowed.
2. **TIRES:** Foam tires only or rubber tires without spikes.
3. **MOTOR:** Any Motor. Race director may request motors be de-tuned if they make the car controllable.
4. **BODIES:**
- Any body.

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- Bodies must have all sharp edges trimmed.
- 5. **CLASS OBJECTIVE:** This class is designed for beginners only. Drivers may be deemed too experienced for this class and forced to bump up by the race director's judgment.
- 6. **ENTRY FEE:** This Class will have a low \$5 entry fee.

## Other Classes Welcome

(3 Car minimums)