NON-WING SPRINT CAR
Indoor Rules
(Updated 11/22/16)

*****Allen's R/C Raceway follows basic DODC rules for our Sprint Car Class*****
Track Specific rules are in GREEN

General: For turn marshal safety all cars must have a front bumper that is made of a shock absorbing material e.g. nylon, delrin, plastic, kydex etc. Front bumpers must be mounted in such a way that they will contact an object prior to any other portion of the car in a front impact. All cars must have 4-wheel independent suspension, single speed transmissions only. No Gyros of any kind are allowed. All power, radio equipment and weights must be in a secured and fixed position and not moveable during a race.

Tires: Tire choice will be determined by track surface and race organizers. General tire choices will be between either foam tires or rubber tires however a race director may implement a SPEC tire rule if desired. Track owners may restrict tire additives at their discretion. Any tire additives that are used must be wiped clean from the tires before any races or practice sessions. No silicone capped or impregnated tires or rubber capped foam tires allowed.

Rubber Tires:
Max wheel diameter: 2.2" front and rear
Max wheel width: 1.750" rear, 1.000" front
Max tire width: 1.850" rear, 1.250" front

Allen's Approved Tires

Front: Duratrax Bandito 4wd Buggy Front C2, C3, or M compound

Rear: Duratrax Bandito Buggy Rear C2, C3, or M compound

Inserts cannot be ground, cut, or altered in any way.
Cutting, narrowing, cutting the inside webbing or sidewall, or altering the carcass of the tire is not allowed.

POWER RULES:

Motors:

Modified: Any ROAR Approved 13.5 Brushless motor.

Batteries:
Any ROAR approved 7.4 Volt 2 cell Lipo battery are legal. Batteries must use a quick release hobby grade connector for connection to the ESC ie:sermos, deans, traxxas etc.

Must be charged in a LiPo safe charging bag.

All racers shall take every precaution to insure safe charging and discharging techniques with their batteries. This shall include but is not limited to, attentive monitoring of battery during charging and use of a proper charging container i.e., LiPo sack. To ensure safe charging methods are followed by all competitors, all batteries may be checked prior to each race to ensure battery voltage is a maximum of 8.44 volts or less. If the battery reads 8.45 or more you do not race. Battery temperature may also be checked with the following pre-race procedure. A control pack will be placed in the tech area for the purpose of monitoring the pack temperature. Checked batteries shall be no more than 10° F above the temp of the control pack.

Speed Controls:

The following options for Electronic speed control rules are available under the DODC electric classes. When choosing an electric class of competition the speed control used for that class must be defined by one of the following three options.

Any ROAR Approved Speed Control. Must be run in (Blinky) 0 timing mode!!

CHASSIS/BODY RULES:

General - All entries must be 2wd and rear wheel drive only. No straight axle cars are allowed. No front brakes allowed.

Wheelbase: 9.5” min, 11.5" max
Maximum width: 10.250" (rubber tires)
Electric Minimum Weights

Rubber Tires: Sprint = 57.0oz

-Maximum Overall Length: 18.000". Maximum Chassis width: 4.025"

A-Arms must be equal length (left to right)

Cage – Sprint cars must have a scale appearing contemporary cage made out of rounded stock. The cage must be symmetrical left to right and mounted level to the chassis. Unrealistic shaped cages designed to exploit the rules below are not permitted. Maximum cage width at driver halo, down tubes, and top frame rail: 3.600". Maximum cage height 5.5" from top of chassis to top of cage at highest point. All cage and body components such as cage, bumpers, nerf bars, hoods, side panels, tanks, etc. must be mounted on the centerline of the cage. Chassis may not extend outside of the side panels by more than 1/4" on either side.

Bumpers – A flat, curved or tubular front bumper (or combination of) must be used and may not be designed to direct air or create downforce. Maximum height of front bumper is 1.75" from the bottom of the lowest point of the chassis. Scale appearing side nerf bars must be used on both sides of the car (left side of nitro sprint is optional due to clearance needed for nitro exhaust).. A scale appearing rear hoop style bumper must be used. Bumpers and nerf bars must be made of a shock absorbing material.

Tail tank – A traditional scale appearing rounded style three dimensional rear fuel cell must be used.

Headers - Three dimensional scale appearing exhaust headers must appear on both sides of car in "engine area" (left side of nitro sprint is optional due to clearance needed for nitro exhaust).

Side panels – Flat side panels may be made from molded or fabricated polycarbonate. Maximum height of side panels in front of the driver cockpit is 3.80" from the bottom of the chassis. Must have minimum of 3/4" high by 2.5" long openings on both sides of cage in driver compartment. Additional material may be used/added to either side of the side panel openings to replicate a scale appearing driver but may not exceed 1" x 1". (Note that the top wing mounts may cover these openings for winged classes.) Side panels may not extend beyond the rear of the cage by more than 0.25". Side panels may not extend above or in front of the front downtubes. Scale appearing driver arm guards and engine vents may be used but cannot extend more than 3/8" from the side panels. No other flares or turnouts designed to deflect, trap and/or form a pattern for air to travel in a directed manner are permitted except for those used to cool electronics.

Hood Area– A scale appearing hood must be used and is defined as beginning at the front axle and ending at the front of the driver cockpit. The hood must be symmetrical from left to right. The hood must be tall enough and wide enough to

allow room for a scale engine intake and air cleaners (no unrealistically low or flat hoods). Minimum vertical gap from top of hood to bottom of front cage crossbar: .750". The hood may not drop below the nearest point of the side panels by more than 3/8" and may not have any channels more than 0.25" deep designed to trap or direct air.

Nose Area – A molded or fabricated nose piece may be used and is defined from the front axle forward to the front bumper. Front bumper may not extend more than 3" from front axles. Nose piece (any lexan) must be at least 3/8" back from the leading edge of the front bumper. Maximum width of nose piece/bumper is 3.75". Maximum width of any surface designed to add downforce is 3.125". Nose piece may not extend above the cage downtubes or an imaginary line connecting the downtubes if the cage is a split design. ******Note that the hood and nose piece can be one piece or multiple pieces for the purpose of easy access to electronics and suspension but are defined as above for purposes of aero rules.***

Sun Visor: No wider than the cage. Max length ¾"