

## US 24 SPEEDWAY 100cc Jr. Sprint Rules

### AGE REQUIREMENT

Drivers ages 6 through 13. Certified copy of birth certificate is required.

### ROLL CAGE

Roll cages shall be at least 1-inch .083 wall thickness mild steel, or 1 inch .065 wall thickness chromoly steel minimum. The front section of the cage shall be no further back than the steering wheel. Roll cage shall have sufficient fore and aft bracing and strength to support the weight of the car and driver in case of an upset. Bends must have at least 3-inch radius. No square or pointed corners allowed. Roll cage must be a minimum of 3 inches above the driver's helmet. Cage must have gussets at the intersecting bars to the uprights. It is mandatory to install a cross brace behind the seat to support the shoulder harness.

### BUMPERS AND NERFS

Cars must have bumper extending beyond the front and rear tires. Nothing may extend beyond a tangent line from the outside edge of the tires to the bumpers. Nothing may extend beyond the outside edge of the tires or wheels, whichever is the widest. No sharp corners or designs as to hook or damage. All cars must be equipped with nerfing bars. Nerfing bars must extend to inside edge of tires, but not beyond the outside of tire.

### ELECTRIC AND ELECTRONICS

On and off switch must be connected and functional and must be able to be reached by the driver when seat belts are secured. Data computers and cockpit carburetor adjusters are allowed. No cockpit panhard bar adjuster allowed. No radio communication is allowed.

### FUEL

Gasoline or Methanol allowed. No additives or enhancements.

### WEIGHT

Minimum car and driver weight is 400 lbs. Material used for weight MUST be firmly attached to the main frame. Only lead and/or steel plate will be allowed.

### SUSPENSION

Coil-over shock suspension only. Tread; Maximum 46 inches. Minimum 32 inches, center to center of tires. Wheelbase; Maximum 52 inches. Minimum 50 inches, center of front axle to center of rear axle. Rear axle to be minimum of 1 ¼ inch diameter steel or aluminum. Steering; Front wheels must be connected by a solid or tubular tie rod. All suspension bolts except wheel nuts must be secured by some type of locking device.

### SHOCKS

No cockpit shock adjustments allowed.

### BRAKES

Brakes will be of sufficient strength so as to slide the wheels while the car is in motion at any given time.

### TIRES AND WHEELS

Wheels to be 8 inches diameter non-beadlock only. Rim stiffeners are allowed. Right rear spec tire to be NMMA stamped 16 x 8.5 x 8. American Racer SD 44. Right rear tire must check 50 compound. Wheels must be held on with 4 or more standard lug nuts or knock-off hubs.

### BODIES

All cars must have complete bodies of Sprint Car design only. Tail sections must be in place for time trials and all races. There must be a metal firewall between driver and engine, made of 24 gauge steel or .0625" aluminum. Body of car must be made of aluminum, fiberglass or high impact plastic. All cars must be an attractive color or colors. No rear view mirrors allowed. The only part of the car allowed to be dismantled for driver to enter or exit is a quick release steering wheel hub. Mudguards are mandatory, drivers vision must not be hampered. All fuel tanks must be equipped with a one-way check valve designed to prevent spillage of fuel in the event of a rollover.

## **DRIVE**

The drive will be by engine or jackshaft mounted clutch. No axle mounted clutches allowed. Chain guards will be made of .090 inch thick aluminum or equivalent material and will extend from the front of the front sprocket to the center of the rear axle for left side engine cars. For right side engine cars driver must not be able to touch the chain or sprockets while sitting in the cockpit.

## **WINGS**

Right side board, maximum 42" x 20". Left side board maximum: 42" x 20". Maximum size is 6 sq. ft. The wing cannot be mounted outside edge of the tires on either side of the rear tires. The measurement will be made from outside of the side boards with the car level. Side boards may not extend more than 3" beyond center section and sides must cover center section. All wings must have radius edge or edging. No raw edges. Wings sides cannot be more than 4" below top of roll cage. Nose wings cannot exceed 24" x 18", and must carry car number. Top wing is mandatory to enter a night's event. Cars may finish without a wing if no replacement is available. No wing adjusters allowed. 2 piece wings are allowed.

## **HUBS**

Front hubs; Go kart type with 5/8" bearings and 5/16" wheel studs minimum. Rear hubs; 5 x 130 Go kart type or equivalent.

## **ENGINE RULES**

One of the engines approved for the Jr. Sprint Class is the 100cc Yamaha KT-100-S. This is a non-sealed engine. The KT-100-S must use the SSX by RLV 4-hole canister muffler mounted in the horizontal position. Can must come straight out of motor. Mufflers must be ran as manufactured, no grinding, smoothing, rewelding, etc. Mufflers may be ceramic coated. Loosely mounted mufflers or lids that come loose during the race will mean disqualification. Mufflers are mandatory and must keep the car at 95 decibels or less. Engine legality to be determined by IKF Go kart engine specs. Engine spec sheets must be current and apply to scheduled race season. IKF engine spec sheets will be available from US 24 Speedway. Briggs World Formula engine will be allowed (Rules will be handed out at the track).

## **NUMBERS**

All cars must have legible numbers in colors contrasting to the background on both sides of the car and on the nose. Minimum height of numbers is 8 inches on the nose and nose wing, 9" on each side of the tail and 12" on the side boards of the top wing, with an 8" minimum number in center of top wing. Numbers must be readable by the scorers.

**NOTE:** Cars, parts, components, and/or equipment will not be considered as having been approved by reason of having passed through inspection at any time or any number of times unobserved or undetected.

**Unless these rules say that you can do something, you cannot.**