



BAER FIELD MOTORSPORTS PARK
"TUESDAY NIGHT THUNDER"
2016 TECHNICAL INSPECTION RULES
WINGED 600CC MINI SPRINTS

1: General

- Minimum Weight **775 pounds**.
 - + Added weight must be bolted on and inside main frame rails of the chassis.
 - + All added weight must be painted white with car number on all sides
- **NO REAR VIEW MIRRORS OR TWO WAY RADIO COMMUNICATION ALLOWED**
- Maximum tread width 65"
- Wheel base must comply 50" minimum and 70" maximum from CENTER of front axle to CENTER of rear axle.
- All suspension bolts except for wheel nuts must be locked into place. No "floating" suspensions.

2: ENGINE

- Any 4 cylinder, 4 cycle engine. Maximum 640cc engines only
- All engines must have cockpit operated electric starter, lever manual clutch in car and on board battery capable of starting an engine.
- Fuel additives are prohibited
- Radiators must be inside main frame rails. Catch cans are mandatory with adequate capacity
- All engines must remain chain driven off of the original countershaft
- Any type transmission is legal on the 600cc engines.
- Any car equipped with a shifting mechanism must have this device mounted in the driver's compartment.
- Chain guards will be made of .090 inch thick aluminum or equivalent and will run on top of chain from the front of the front sprocket to the center of the rear axle. Driver must not be able to touch the chain or sprockets while sitting in the cockpit.

3: TIRES / WHEELS

Car width with tires not to exceed 65" at widest point. Front RIM and TIRE width, minimum 6" wide, maximum 8" wide. Rear tires must be 10" dirt tires. Any combination of rim width allowed. Tires must be HOOSIER branded tires. Air bleeders are allowed.



4: BODY / ROLL CAGE

- Sprint Car appearance required. May be constructed of aluminum, metal, fiberglass, or high impact plastic, or carbon fiber.
- Lightweight aluminum not to exceed 0.040 may be placed on the inside of the nerf bars for advertising purposes only
- Front and rear bumpers may not extend beyond the main frame rails
- There must be a metal firewall between driver and engine, made of 24-gauge steel or .0625" aluminum.
- No portions of the wing or any other components can extend beyond the outside edge of the tires.
- Mudguards are optional. Mustguards if used must be made of aluminum or fiberglass, and can be no less than 16 inches from the top of the cage.
- Mandatory straight, solid tubular axles, front and rear. No independent suspensions.
- All mechanically operated devices must be mounted below the driver's shoulders for safety reasons.
- Only a left front brake and rear brakes allowed, maximum two rotors and calipers on car

All fuel tanks must be equipped with a one-way check valve designed to prevent spillage of fuel in the event of a rollover.

- Roll cages shall be at least 1-inch .062 wall thickness, or 1 1/8 inch .065 wall thickness, or 1¼ inch .065 wall thicknesses. Roll cage shall be made of chromoly steel or equivalent material.
- 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.
- Cage shall have gussets at the intersecting bars to the uprights.
- 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.
- It is mandatory to install a cross brace behind the seat to support the shoulder harness.

5: Safety

- Working RaceCeiver is mandatory. Frequency TBA
- All drivers must wear approved SFI fire-rated racing suit, footwear and gloves, in good condition. Racing apparel must meet SFI standards.
- Full face helmet mandatory with 2000 Snell S or SA rating or better
- Neck brace or Head & Neck Restraint System is required
- Five-Point type harness mandatory. Belts must be minimum 3" wide and date-coded within the last **three years**. Racing belts must meet SFI standards.
- Only the driver is allowed on the race track. Crew members must remain in pit area or spectator area during racing.



6A: WINGS (TOP)

- a) Top wings are mandatory. **Top wings may not exceed 16" squared.**
- b) Center air foil can not exceed 12 sq. ft. (1728 sq. in.) of surface area. Surface area is defined by the length x width of the flat plane of the largest projection of the center foil.
- c) Top Wing must not extend beyond outside of rear tires or behind the rear bumper.
- d) Center foil must be square or rectangular in shape with all 4 corners set to 90 degree angles.
- e) Center foil must be one piece. No split or bi-wings permitted.
- f) Maximum dimension of each side panel is 54-1/4" x 24-1/4". Only two side panels allowed. No kick-out allowed. Panels must be parallel.

6B: WINGS (NOSE)

- a) A nose wing is optional.
- b) Nose wing must not extend beyond the outside of the front tires., or beyond the front bumper.
- d) Center foil must be one piece. No split or bi-wings permitted.

**VERIFIED
March 3rd, 2016**

**MICHAEL McINTYRE
RACE DIRECTOR / FLAGMAN - DIRT TRACK / TUESDAY NIGHT THUNDER
BAER FIELD MOTORSPORTS PARK**

**DAVE MUZZILLO
PROMOTER / TECH INSPECTOR
BAER FIELD MOTORSPORTS PARK**