

• Indoor Series TQ Midget Rules •

Officials Decision Is Final On All Items Noted or Otherwise Updated 9/15/14

- TQ MIDGET RULES -

600 Micro Sprints May Compete As TQ Midget

TQ MIDGETS - 750cc Maximum Displacement

All engines must be production 750cc motorcycle engines.
Engine must be stock in appearance. No porting.
No Current Year Motors Allowed. All motors must be 2013 or older.
Maximum Displacement 750cc - 4 Stroke Motors Only.
- Except engines 1995 & Older are allowed 1mm overbore
All Cars must be self starting.
Fuel injection or carburetion may be used.
No forced induction or nitrous is allowed.
Must run Racing gasoline sold at the event only (112 octane / No additives).
No rear engine cars. Driveshaft and rear end only.

600 MICRO SPRINTS - 637cc Maximum Displacement

All engines must be production 600/636cc motorcycle engines.
Open motor rules. Engines may be ported.
No Current Year Motors Allowed. All motors must be 2013 or older.
All cars must be self starting. NO 2 stroke engines allowed.
Fuel injection or carburetion may be used.
No forced induction or nitrous is allowed.
Racing grade methanol or racing gasoline sold at the event (no additives).
No rear engine cars, chain driven only.
Front brakes are highly-recommended.

Weight Rules - Scaled Before & After Race (No Fuel May Be Added)

TQ Midgets w/ Engines 2003 & Older - 810lbs
TQ Midgets w/ Engines 2004 & Newer - 835lbs
600 Micro Sprints - 780lbs

TIRES: ALL CARS MUST RUN APPROVED HOOSIER TIRES (HIN) ON ALL FOUR CORNERS. Compound and entire tire code must be visible at all times. Below is a list of the approved compounds and tire sizes.

(RR) 9.0/22.0-13 - HIN3, HIN4
(LR, LF, RF) 7.0/20.5-13 - HIN3

(RR) 10.0/19.0-10 HIN3, HIN4
(LR-RF-LF) 6.0/18.0-10 - HIN3
(Optional RF) 8.0/18.0-10 HIN3

No tire softening will be allowed on the grounds inside or outside the building. Tire grinding will be allowed only in the restricted area outside the building. Grinding tires inside building is not allowed by order of the State Fire Marshall because of the smoke it creates.

Anyone caught softening tires, grinding tires or with any chemical deemed illegal by event staff will be subject to the following penalties: Loss of time trial, starting position in next event or complete disqualification from event.

WHEELS: All wheels and tires must be an approved racing type.

TQ - 10" or 13" diameter allowed.

600 - 10" diameter wheels only.

- No Carbon Fiber wheels.
- No wheel center bolts made of aluminum. • Wheel cover must be bolted on.

TREADWIDTH: Measured from outside edge of LR to outside edge of RR

TQ - no less than 36" no more than 56"
600 - no less than 36" no more than 59"

WHEELBASE: 70" max., 56" minimum.

BUMPERS / RUB RAILS:

Front bumper must extend 2" in front of tires.

Front and Rear bumper cannot extend wider than the frame.

Left Side Rub Rail can extend 1" past left rear tire. No tolerance.

Right Side Rub Rail cannot extend past outside edge of tire.

- A straight edge will be used to check both and will be strictly enforced
Top of Rub Rails cannot be higher than 18" off ground.

- Gap between top and bottom rails cannot be larger than 12"

Sheetmetal can be placed in between rub rail hoops for promotional use.
No lead or weight bars. No thicker than .030 Alum or .085 Fiberglass.

BODIES: All cars shall have a complete body including hood and tail section. Driver's name or nickname should be on top of roll cage in front of driver. A number plate shall be placed on left side of car for scoring purposes. Car number should also be placed on front and rear tail of car for identification by fans. No wild bodies, officials decision is final. No top or front wings allowed.

RADIATORS / COOLING: NO ANTI-FREEZE, Water Only! Radiators will be checked in tech. Antifreeze ruins racing surface and must be eliminated.

\$100 fine to anyone caught with anti-freeze in motor. All radiators must have sufficient catch cans to prevent overheating water from hitting racing surface. All radiators and reservoirs must be shielded from driver. Radiators should be mounted inside frame or protected by a nerf bar.

CAR DIAPER: All cars shall have a diaper mounted underneath motor and cooling system to prevent leakage on to racing surface in the event of overheating or engine failure. Diaper must cover entire area under motor.

SPEC MUFFLER: Steel 600/1000cc muffler sold by Beyea Headers for the retail cost of \$100. NO tampering with or modifying the muffler in any way. Muffler must remain stock from Beyea and in good working condition. Muffler must be removable at the track if thought to be tampered with, no welding mufflers on. No altering muffler flange, must remain stock size so officials can replace muffler with stock muffler at track.

Indoor Race officials will have spare mufflers at their disposal to replace any muffler that is in question. Muffler in question will be sent back to Beyea to determine if it was tampered with. If muffler is found to be illegal it will result in a \$500 fine that must be paid before competitor can compete again. No competitor may compete without a muffler. If a muffler is damaged or removed in an accident that car will be removed from the track until repairs are made.

CHASSIS SPECIFICATIONS: All frames must be constructed of 4130-chrome molly tubing or equivalent. Fire wall between driver and motor .030 aluminum or .080 fiberglass. Cars without a bladder in fuel tank, must have firewall between fuel tank and driver constructed of aluminum or metal, no fiberglass. Chain guards are mandatory.

FUEL TANKS: All cars must arrive with empty fuel tanks and must be inspected before purchasing fuel at event. Fuel lines and filter should be cleaned to prevent contamination.

Any fuel tank larger than 5 gallons must have a bladder. Fuel tanks shall not be mounted within the driver's compartment. All side tanks must be enclosed in protective metal shell. All vehicles without a bladder shall have a permanent firewall between the fuel supply and driver.

A fuel line or fuel pump is prohibited in the drivers' compartment unless properly shielded to prevent leakage in the event the lines or pump is damaged or broken. The shielding for fuel lines shall consist of steel-braided material.

Fuel lines must be more than three (3) inches from the headers unless shielded by metal. Fuel line must be braided if it passes through the cockpit of the car.

- SAFETY ITEMS OF NOTE -

WHEEL TETHERS - Tether should be secured to frame and to spindle to prevent tire and suspension from coming detached from car. *More information to be available, we are working Amick Associates to develop a tether system.*

All cars and drivers must comply with New Jersey State safety regulations. Below are some highlighted rules.

- ALL RACERS must use a head-and-neck restraint device (Approved devices include neck collar, HANS, Hybrid, NeckGen).
- One-piece firesuit. • Gloves • Arm restraints. • **Fire resistant underwear.**
- Helmet's must be full faced with Snell rating of SA 2005 or better.
- SEAT BELTS - Must meet SFI Specification 16.1 rating as a minimum. Date of manufacture cannot be more than two (2) years old. Wrap around or bolt-in quick release five-point belt harness with all connections to be secured at frame. Shoulder harness must pass over a round bar located at the driver's shoulder height. No alterations to manufactured design. All belts must be in good condition and bear the date and manufacturer's name.
- A fuel shut-off valve must be easily accessible to the driver and marked "On & Off" with brightly-colored paint.
- Molded metal seat with opening to allow seat belts to pass through required. Seat shall be attached to the frame with at least four (4) three-line 5/16-inch bolts. Two bolts shall be installed at the bottom of the seat not more than three (3) inches from the outside edge and two bolts shall be installed at the two most practical widely-spaced points at the top of the seat rack. Vehicles with metal seats do not require straps, but do require larger washers at each bolt.
- Driver's head should have ample clearance between helmet and rollbar.
- Rollover bars shall not be bolted to the frame of the vehicle.
- Steering wheels must have a padded center & quick release hub. No pull-pin.
- All vehicles must have an ignition switch within easy access to the driver in the cockpit and be clearly marked. Ignition switch must kill all power to the fuel pump. *** **RECOMMENDED** - An oil pressure relay sensor for the fuel pump that cuts power to the fuel pump when motor isn't running. ***
- Batteries located in driver's compartment shall be secured and shielded to prevent leakage in the event of a turnover. Batteries located adjacent to the fuel supply must be secured in a metal box bolted to the frame of the vehicle by at least four 3/8-inch bolts and in such a manner to apply maximum pressure against the metal box to the frame. The battery shall also have a marine-style box cover secured to the top of the metal box as to not allow movement of the battery. Batteries located in any other area not specified above shall be secured and shielded to prevent leakage in the event of damage or turnover.
- All vehicles shall have suitable metal flooring from the front firewall (in our case front of our feet) to the center of the seat. (Highly recommended to the rear of seat).
- **No mirrors or two-way radio communications allowed in cars.**