



2020 TQ MIDGET INDOOR SERIES RULES

THIS RULE BOOK MAY BE AMENDED AT ANY TIME AT THE DISCRETION ON INDOOR SERIES OFFICIALS. It is the competitors obligation to ensure their conduct and equipment complies with all applicable rules. In the event of a disagreement or dispute over the intent or interpretation of rules, Indoor Series Officials/Management's decision will prevail. No protests or appeals will be accepted. For questions or rule clarifications contact Davey Sammons at 609-888-3618 in advance.

- UPDATES FOR 2020 -

- **ENGINES** - No Current Year 2019 or 2020 Motors Allowed. All motors must be 2018 or older. **MUFFLER MUST HAVE BEYEA PLATE**

- RULE REMINDERS -

- All bolt on weight must be painted white with car number. Any weight not fully painted with a car number will be removed. No exceptions.
- Diapers must cover the bottom of motor and radiator. Diaper must contain liquids! This is to help you and the surface!
- **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.**
- **ROUGH RIDING** - We will start the season where we left off. No rough riding! Considering this your first warning.
 - First offense in a race sends driver to JR Michalski Cool Down Zone; second offense car is sent to the pit area.
 - Officials have the right to park a car for the weekend at any point.
 - A car will be sent to the pits after a total of **TWO** unassisted cautions or rough riding calls.

- SAFETY RULE REMINDERS -

(Check your safety equipment before arriving. This will save time and hassel for you if you are out dated)

- **ARM Restraints, Gloves, One-Way Radios are mandatory, 454.000!**
- **SUIT** - ALL DRIVERS REQUIRED to wear fire resistant underwear and one piece driving suit to cover arms, legs and body.
 - Suit must have **SFI rating of 3.2A/5** or greater or **FIA 8856-2000 or greater.**
 - No suits with an outer layer of nylon will be permitted, some FIA 8856-200 suits have this layer!
 - **If you purchased a used crew member suit, you may not meet these requirements!**
- **HEAD AND NECK RESTRAINT** - All drivers must wear a properly secured SFI 38.1 rated Head and Neck Restraint Device/System.
 - Must have certification no more then 5 years old from date of event! No exceptions.
- **SEAT BELTS** - Date of manufacture cannot be more than two (2) years old from date of event! No exceptions.
- **HELMETS** - The current snell rating his SA2015. Acceptable ratings include SA2015 and SA2010. **No Snell M rated helmets.**
 - **2020 is the last season for a SA2010 helmet. Starting in 2021 you will need a SA2020 or SA2015 helmet.**
- **SEATS** - All cars must have a full containment seat or a seat utilizing a bolt on containment system. See rules for details.
 - Rollbar/cage padding meeting SFI 45.1 Specs is required anywhere a drivers helmet may come in contact with the rollbar/cage.
 - The NJ State law "Rollover bars shall measure a minimum distance of three inches between the top of the driver's helmet and the bottom of the roll bar measured at the closest point between the two when the driver is seated and belted in place." will be enforced.
 - A Halo will count for the measurement.

- 2020 TQ MIDGET INDOOR SERIES RULES -

TQ Midgets & 600cc Micro Sprints Competing Head to Head In All Competition



ENGINES -

- All car must be self starting - No full size car batteries, only smaller motorcycle/ATV or Racing.
- 4 Stroke motors only.
- Fuel injection or carburetors may be used.
- No forced induction or nitrous is allowed.
- No Current Year Motors Allowed.

A. TQ MIDGETS - 750cc Maximum Displacement

- All engines must be production 750cc motorcycle engines.
- Engine must be stock in appearance. No porting.
- **No Current Year (2019 or 2020) Motors Allowed. All motors must be 2018 or older.**
- Must run Racing gasoline sold at the event only (112 octane / No additives).
- No rear engine cars. Driveshaft and rear end only.

B. 600 MICRO SPRINTS - 637cc Maximum Displacement

- All engines must be production 600/636cc motorcycle engines.
- Open motor rules. Engines may be ported.
- Choice between racing grade methanol or racing gasoline sold at the event (no additives).
- No rear engine cars, chain driven only.

C. SPEC MUFFLER: Steel 600/1000cc muffler sold by Beyea Headers for the retail cost of \$100. MUFFLER MUST HAVE BEYEA PLATE

- 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.
 - Multiple sizes available, buy the right one for your headers!

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.

WEIGHT RULES - Scaled Before & After Race (No Fuel May Be Added)

- TQ Midgets - 850lbs
- 600 Micro Sprints - 795lbs

TIRES - All Cars Must Run Approved Hoosier Tires (HIN) On All Four Corners. NO TIRE WARMERS/HEATERS

A. 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

B. TIRE SOFTENING/ALTERING - PLEASE SEE ATTACHED AGREEMENT/PROCEDURE FORM & PENALTY

C. TIRE GRINDING -

- Grinding tires in building or wet grinding tires with any chemical other than supplied Simple Green or Windshield Washer fluid will result in disqualification.

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

- No Carbon Fiber Wheels Allowed
- No Wheel Center Bolts Made of Aluminum
- All Wheel Covers Must Be Bolted On.

A. TQ Midgets - 10" or 13" diameter allowed.

B. 600 Micro Sprints - 10" diameter wheels only.

CHASSIS - All frames must be constructed of 4130-chrome molly tubing or equivalent. No Carbon Fiber Suspension Parts.

A. TREADWIDTH: *Measured from outside edge of LR to outside edge of RR*

- TQ Midgets - no less than 36" no more than 55.5"
- 600 Micro Sprint - no less than 36" no more than 59.5"

B. WHEELBASE: 70" max., 56" minimum.

C. BUMPERS / RUB RAILS -

- Only muffler can be mounted to left side nerf bar, No batteries mounted to nerf, batteries must be securely mounted!
- Must be a 2" crush zone all the way around nerf (excluding exhaust).
- Car must remain open wheel in design.
- No bumper or rub rail shall extend past, over or cover any tire.
- No blunt, sharp or protruding edges of any kind.
- Front bumper must extend 2" in front of tires.
- Front Bumper must have a flat leading edge, no pointed/round bumpers

- Not Acceptable (top view)
- Acceptable (top view)



- Front bumper may have max. 2 horizontal bars, top and bottom.
- Front and Rear bumper cannot extend wider than the frame.
- Front and Rear bumper may not extend wider than frame sockets.
- Frame Sockets may be as wide as main frame rails

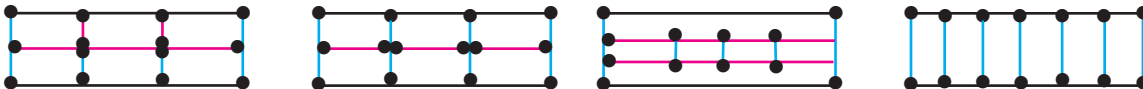
Not Acceptable (top view):

Acceptable (top view)



Alteration to hoop front bumper allowed

- Rear bumper must protect tail tank.
- **Left Side Rub Rail can extend 1" past outside edge of 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"
- Aluminum Sheet Metal can be placed in between rub rail hoops for promotional use.
- Min - .050 • Max - .063 ALUMINUM ONLY
- No lead or weight bars shall be mounted to rub rails.
- Rub Rail shall be made of material with a maximum 1/8" wall thickness and 1 1/8" OD
- Rub Rails may not be made from solid material
- Rub Rails may not be filled with shot peen or any other form of lead
- Competitors will be required to remove left side nerf bars in post race tech when asked by officials
- Denial will result in loss of time or disqualification from the event. (Random, Top X in qualifying/feature events, etc)
- Maximum 7 support tubes (segments) between top and bottom rails.
- A support tube is any bar welded between top and bottom rails, Any piece of tube welded on both ends is considered a support tube
- Maximum 2 horizontal support tubes (not including top and bottom rails.)
- Maximum 4 rub-rail mounting points to frame
- Maximum 2 mounting points for a single tube injector guard.
- Examples (• dot represents a weld):



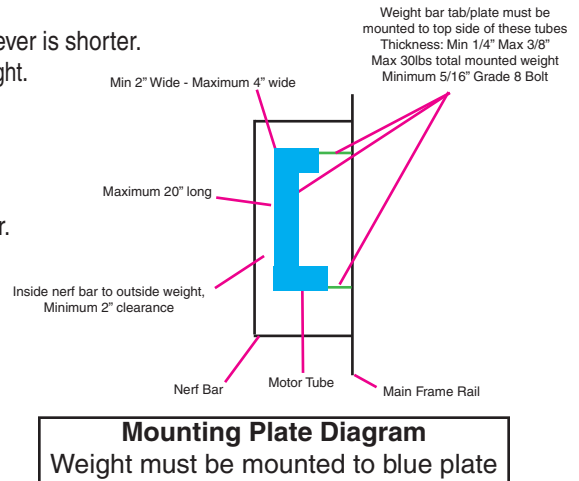
Each segment is considered a support bar. 7 Support Bars Pictured

D. BOLT-ON WEIGHT BALLAST -

- All weight shall be bolted to or within the confines of the MAIN frame rails. **(EXCEPT FOR WEIGHT BAR, SEE ON NEXT PAGE)**
- Bolt on weight must be mounted to a welded tab on the frame or directly to frame rail. Tab must be a min 1/4" thick.
- All bolted-on weight shall be painted white and numbered to correspond with car number
- Weight shall be secured using a minimum 5/16" Grade 8 bolt and have double full nuts
- Rub rails are not considered part of frame.
- All ballast locations must be approved by officials. Official's decision is final.
- Any car losing weight would be disqualified from that event.

E. Weight Bar/Plate

- All weight mounted outside the main frame rails must be mounted to a plate welded to the top of frame tube under motor.
- **Maximum weight allowed outside the main frame rails is 30lbs.**
- Mounting plate must be at least 2" wide and may not be more than 4" wide.
- Mounting plate may not be longer than 20" or longer than frame rail. Which ever is shorter.
- All mounted weight must not hang off of plate. Plate must cover full bottom of weight.
- Mounting plate must be welded to top side of frame rail.
- Plate must be: Minimum of 1/4" and Maximum 3/8" thick
- Minimum 5/16" Grade 8 bolt must be used.
- Bolt head must be on bottom side with full double nuts on top.
- There must at least 2" between outside edge of weight and inside of nerf bar.
- Weight must be painted white and labeled with car number.



F. MISC.

- Chain guards are mandatory.
- No Carbon Fiber Suspension Parts.
- No sharp, blunt or protruding edges allowed.
- Roll Bars Shall be welded to frame, no bolt on frames allowed.

FUEL TANKS -

A. EMPTY TANKS

- All cars must arrive with empty fuel tanks and must be inspected before purchasing fuel at event.
 - Fuel lines, tank and filter should be cleaned to prevent contamination.
- Fuel sample will be taken from truck at event and used as base line in all testing.

B. SAFETY

- Any fuel tank larger than 5 gallons must have a bladder.
- All vehicles without a bladder shall have a permanent firewall between the fuel supply and driver.
 - Firewall shall be constructed of aluminum or metal, no fiberglass.
- Fuel tanks shall not be mounted within the driver's compartment.
- All side tanks must be enclosed in protective metal shell constructed of min 22 gauge steel (.0299) or 16 gauge (.063) alum. .090 alum is preferred
- When using left side tank, driveshaft must be protected by a hoop in the tank area.
- 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.

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.
- All vehicles shall have suitable metal flooring from in front of the driver's pedals to the center of the seat.
(Highly recommended to the rear of seat).

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.

- Must cover engine and radiator compartment in their entirety.
- Must contain an absorbent material such as pig rags.
- If using a sheet of aluminum, seal to the frame with silicon to prevent seeping.
- Rear end housing should be wrapped with absorbent material

Overflow Tanks

(Water/Oil dripping situations hurt the track just as bad as oil downs, we will not take this lightly. A dripper can be considered a leaker and put off the track)

- A small water/drink bottle is not an acceptable radiator overflow tank!
- Radiator overflow return system is HIGHLY recommended.

SAFETY ITEMS - All Cars and drivers must comply with NJ State Safety Regulations.

A. DRIVER SAFETY EQUIPMENT

- ALL DRIVERS REQUIRED to wear fire resistant underwear and one piece driving suit to cover arms, legs and body.
- Suit must have **SFI rating of 3.2A/5** or greater or **FIA 8856-2000** or greater. **Nylon covered fire suits are prohibited.**
- Arm Restraints are Mandatory
- All Drivers Required to wear fire resistant gloves, shoes and socks.
- Rollbar/cage padding meeting SFI 45.1 Specs is required anywhere a drivers helmet may come in contact with the rollbar/cage.
- The NJ State law "Rollover bars shall measure a minimum distance of three inches between the top of the driver's helmet and the bottom of the roll bar measured at the closest point between the two when the driver is seated and belted in place." will be enforced.
- A Halo will count for the measurement.

B. 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.

C. HELMETS -

- All drivers must wear a properly secured full face helmet, which meets or exceeds the latest Snell SA Rating.
- The current snell rating his SA2015. Acceptable ratings include SA2105 and SA2010

D. HEAD AND RECK RESTRAINT -

- All drivers must wear a properly secured SFI 38.1 rated Head and Neck Restraint Device/System.
- Must have certification no more then 5 years old.

E. WHEEL TETHERS -

- Tethers manufactured by Amick Industries are mandatory on the left & right front of all independent suspension cars.
 - The tether shall wrap around front frame and bolt to spindle with .500" bolt.
 - Tether available from Area Auto Racing News office 609-888-3618 for cost of \$50 per tether or \$90 per set plus S&H.

F. SEATS - All cars must have a full containment seat or a seat utilizing a bolt on containment system.

- Must have both left and right side head and shoulder containment.
- Products such as Kirkey Basic Head Supports Part Numbers 100 (right) & 200 (left) NOT ALLOWED.
- Bolt on systems such as:
 - Kirkey Bolt On Restraint Kit, The Joie of Seating "Safer System" & Butler Sportsman Advantage kit are allowed.
- If you have questions email davey@aarn.com with a picture of your seat or product you are looking at.
- 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
 - 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.

G. BATTERIES -

- 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.
 - Box shall be secured by at least four 3/8-inch bolts and in such a manner to apply maximum pressure against 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 from damage or turnover.

H. MISC.

- Driver must have working one-way raceceiver radio to monitor race control at all times.
- Rollbar/cage padding meeting SFI 45.1 Specs is required anywhere a drivers helmet may come in contact with the rollbar/cage components..
- No mirrors or two-way radio communications allowed in cars.
- 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. ***
- A fuel shut-off valve must be easily accessible to the driver and marked "On & Off" with brightly-colored paint.

I. ROUGH RIDING - We will start the season where we left off. No rough riding! Considering this your first warning.

- First offense in a race sends driver to JR Michalski Cool Down Zone; second offense car is sent to the pit area.
- Officials have the right to park a car for the weekend at any point.
- A car will be sent to the pits after a total of three unassisted cautions or rough riding calls.

*****Officials Decision Is Final On All Items Noted or Otherwise*****