

2024

I-76 Mini Mod Rules

Series Rules & Regulation:

- These are the same rules that were used last year (2023) The purpose is to provide a safe, competitive, low-cost racing environment for our young drivers.
- We will endeavor to support the original manufacturer of the mini mods (Bonzai Mini Mods)
- Interpretation of the rules will be at the discretion of track officials. All decisions by officials will be final.
- Officials have the right to check anything on any car at any time.
- Officials have the right to amend any rule at any time for the betterment of the class. If this occurs, notification to all teams will be made available immediately.
- The safety recommendations are provided as a minimum recommendation in line with industry standards. They should be used in addition to the requirements put in place by your local track. Drivers are responsible for the race worthiness of their equipment and should inspect ALL equipment prior to any racing. Drivers should always use the highest quality, up to date safety equipment as defined by SFI, FIA, SNELL or other recognized safety certification organizations.

Age: 6 to 14 years

Tires:

- RF, LF, LR, RR must be 2 or 4 ply ribbed flat profile tire.
- RF, LF, LR, RR tires must be 16-650 x 8
- Width 6.4"
- Diameter 16.4" max tire split 1 ½"
- No groove and sipe tires in any pattern.

Wheels:

- RF, LF, LR, RR must be steel 8" diameter x 5 3/8" width (if there is an availability problem we will address the option of a 7" wheel).
- No plastic, carbon fiber or aluminum wheels, 4" X 4" bolt pattern.

Hubs:

- Steel front hubs only.
- Rear hubs may be aluminum.

Spindles:

- Steel spindles ONLY

Steering:

- No rack and pinion

Fuel / Tanks:

- Pump gas only.
- No race fuels.
- No additives.
- No methanol.
- No aftermarket fuel pumps.
- Gas tanks may be relocated to the rear of the car as long as it is within the rear clip.

Gear, Clutch and Jackshaft:

- No high performance, after market race clutch (NO tampering with springs or clutch engagement)
- Clutch may be a 13 or 14 tooth sprocket only.
- Jackshaft may run 12-17 tooth sprockets in any configuration.
- Axle gear can be max 67 tooth.
- Max gear ratio for all tracks is 601.3
- Chain must be #40
- **Chain tensioners are NOT allowed.**

Brakes:

- One rear brake.
- No front brakes.
- 8" max diameter of brake disc, 3/16" min thickness.
- Hydraulic brakes only.

Bird Cages:

- Bird cages bearings must be steel.
- Maximum of 2

Engine:

- All engines must be Predator 420cc.
- The engine must be mounted in factory location.
- The carburetor must be stock Predator OEM that comes in the box.
- Any carburetor jet may be used.
- After market air cleaners are allowed.
- The governor may be disconnected.

Engine Modifications:

To promote proven longevity and reduce costs the following' very limited, engine modifications are allowed.

- Original factory cam lobe lift of .250" must to maintained. NO high lift racing cams.
- The Twister, after market camshaft is legal to use. It has the original factory .250" lobe lift, and modified opening and closing ramps that greatly reduce valve train stresses and increases valve train life.
- The Twister camshafts are readily available from:
NR Racing part # NR_ 390CAM-250-TW
OMB Warehouse
Amazon .com
- Valve springs may be replaced with aftermarket, heavy duty springs. Only one spring per valve. The 2 springs per valve racing set up is not allowed.
- Heavy duty valve springs are readily available from:
NR Racing
OMB Warehouse
Amazon .com

Engine Modifications that are NOT allowed:

- No flow porting or polishing of the cylinder head.
- No after-market (non-stock) connecting rod, crankshaft, flywheel, piston, or valves.

Engine Claim:

- Top 4 cars in the A Main can be claimed on any night within 10 minutes of finishing the A Main.
- \$550 cash to claim a motor. Race team having their motor bought can either take \$550 cash or can swap and take \$350 cash, plus get the other teams motor that is making the claim.

Wheel Base and Tread Width

- Min 58" Max 60"
- Max overall length of car 110"
- Front and rear track width measured from outside to outside of tire Min 48 ½" Max 51 ½"

Front and Rear Axle:

- Must be original manufacture's specifications.

Shocks and Springs

- No valving of shocks.
- No Bumps stop.
- No oil shocks.
- Only 3 coil over shocks per car. Shocks length min 11" max 12 5/8".
- May change shock end to ½" bolt size.
- All pick up points must be in stock manufacture position.

Body:

- Maximum deck panel width 48 ½". Maximum length of car 110"-Car and body MUST fit in a hypothetical box of 48 ½" wide x 110" long Maximum 47" tall measured from ground to highest spot at rear of roof.
- Maximum roof size 33" wide x36" long. Roof sides max ¾" wicker bill
- Max interior rake 5" front to rear
- No rear spoilers allowed.
- Window opening minimum 13" door to roof measured at center.
- Must have engine cover between engine and driver.
- LR, RR inner quarter panel/tire deflection bar is recommended.
- Must have car number clearly displayed on each side of car and on roof. Minimum size 13"

Chassis:

- Must be a Bonsai mini mod chassis.

Weight:

- Any added led must be painted white and have their car number on it. Added led must be bolted though a welded tab with minimum of 3/8" bolt with fender washers and lock nuts mounted within the bottom perimeter of the seat.

Miscellaneous:

- Working race receivers are mandatory, and must be worn in hot laps, heat races and main events.
- No aluminum, titanium, or hollow bolts.
- No lightning, drilling out of any parts or components.
- The procedure for trophy / awards presentation will be controlled by the track official.

Safety:

- Please consult your local track for specific requirements in addition to the detailed items below.
- The car must be equipped with a seat designed specifically for race use. A full containment seat is recommended.
- Neck braces are mandatory. Hans, helmet restraint systems are recommended.
- Mandatory 5 Point seat belts are to be properly mounted.
- Arm restraints or window nets are mandatory.
- Full face helmet is required, and it must fit properly.
- Fireproof suits are mandatory.
- Approved shoes and gloves are required.

Points System:

- Pills will be pulled for start position in heat races.
- Points from the feature race will be determined by the track officials.

Qualifying and Race Procedures:

- Eight cars will transfer from the heat races. Four cars will transfer from the B main.
- All drivers need to line up in a timely manner and stay lined up in a timely manner.
- All drivers must use race receivers.
- Qualifying and race procedures will be determined by track officials.
- Number of laps will be determined by track officials.
- On track incidents, the track official is officiating the race. Bumping or banging is not allowed and handled by the track official.
- For the safety of our drivers, any post-race retaliation or retaliation under caution is conduct issue that the track officials will address to their discretion.
- All on track calls will be made by track officials and their calls will be final.
- Car owner is responsible for the conduct of the driver, crew, family and friends on and off the track.

