



2021

SHARP

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SHARP Engineering LLC

12/12/2020

V1.0

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ABOUT SHARP MINI WEDGE PROGRAM

Our mission is to provide the safest racing program possible, designed to teach young drivers ages 3-12 the skill, sportsmanship and fair play needed to compete on and off the race track. Through racing, we plan to provide opportunities for continuous education and development that will foster personal and career growth.

Our goal is to provide a fun, safe, family friendly environment for every person, and to create an enriching experience for both parent and child. We will develop a culture where everyone involved treats each other fairly, with respect, offering encouragement and appreciation, to promote healthy competition at or away from the racetrack.

We hope that our efforts as an organization will be recognized by others as a benchmark for safety and fairness as we help to develop the skills of young racers with dreams of success in professional racing.

This rule set is derived from existing mini wedge sanctioning body rulebooks, as well as other racing organization rulebooks across the United States and will serve as a foundation for new regions looking to deploy similar programs.

1. SHARP MINI WEDGE RULES & REGULATIONS

1. SHARP Engineering, LLC has designed and developed the SHARP Mini Wedge for off road use only. The rules and recommendations identified in this document are designed for kart uniformity of the SHARP Mini Wedge class, and to provide a set of safety recommendations to be adopted by tracks, series, and individual drivers as a means of injury prevention. The safety recommendations in this rule book are provided as minimum recommendations, 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 outing. Drivers should always use the highest quality, in date safety equipment as defined by SFI, FIA, SNELL, or other recognized safety certification organization.
2. Interpretation of Series rules will be at the discretion of the technical inspector (track or series). All decisions by track and/or Series officials will be final. If the rules do not state you can do something, assume that you CANNOT.
3. Officials have the right to check anything, on any car, at any time
4. Officials have the right to amend any rule at any time for the betterment of the Series
5. All drivers and crew must respect other fellow racers. No swearing, threatening comments, gestures, or otherwise aggressive behavior will be tolerated.
6. Kart must weigh no less than 310 lbs, with driver, after the race. When tracks split the class by age they must split it by 3-7 and 8-14 years old. The 8-14 year old kids must weigh in no less than 335 lbs, with driver, after the race. (Tracks can choose to weigh in before or after the race.

2. TIRES/RIMS

1. Tires must be a Burris SS33 or SHARP Spec Compound.
2. Chemical alterations of any tires are strictly prohibited.

3. **Tire softeners or conditioners which alter the chemical compound of the tire will NOT be permitted. This includes, but is not limited to, tire soaking, siping, internal applications or the use of tread softeners. This will be strictly enforced.**
4. **No Grooving of tires**
5. Grinding/buffing: **No tire grinding or buffing at track**
 - a. **If we see you, the tire will be marked and DQ for that event**
6. Tires durometer will be used in addition to national lab testing
7. Rim width cannot be any wider than 6-1/2" wide and must be at least 6" Tall.
8. Any offset wheel
9. No plastic or carbon fiber wheels
10. No bleeders of any style

3. SAFETY

1. All drivers must wear an approved SFI3.2A/1 or better Fire Suit.
 - a. SFI certification patch shall be required on fire suit.
2. A Full Face helmet will be mandatory at all tracks and events. Recommended SNELL2010 or better
3. All drivers must wear a neck brace. Recommended SFI38.1
4. All drivers must wear closed toe shoes. Recommended SFI 3.3 shoes
5. All drivers must wear gloves. Recommended SFI 3.3
6. Crews must have a large fire extinguisher present in their pit and trackside once racing begins.
7. Driver's seat must be mounted in four locations (4-Bolts) by minimum 3/8" diameter bolts.
8. Throttle must, at all times, have two throttle return springs.
9. Kill switch must be mounted on the deck, visible to officials.
10. Any weight mounted on the kart must be painted white with the drivers name and number on the weight.
 - a. Weight must be mounted by at least a 1/2" bolt.
 - b. Any weight lost during an event will result in a two week suspension.
11. 5-Point harness system is mandatory.
 - a. All harnesses must have a SFI Rated patch. Recommended SFI 16.1 Rating
12. All karts must have two triangle type side window nets attached to the roll bar, one on each side of the driver, OR wrist restraints. Recommended SFI 27.1 or SFI 3.3 Rating
13. Full Containment seat Highly Recommended.

4. CHASSIS

1. All karts must be constructed of steel tubing with a complete 6-point roll cage including adequate side protection. Cages must be a minimum of .065 x 1" steel tubing completely welded to the frame.
 - a. Cage must appear to have been constructed using quality materials and manufacturing practices
2. Front and rear down tubes are mandatory for driver's protection.
3. At least one vertical D door bar must be welded on each side of the driver running from the main rail to side crash bars for driver protection. See rear side view drawing for more details.
4. Front and rear bumpers must be mounted at all times. Front and rear bumpers must have at least a 6" tall hoop.
5. Safety bumpers must be undamaged at the start of the night.

6. The engine must be located behind the driver's seat. No part of the engine can be located beside the seat.
7. Axle must be a Steel Axle or Chrome Moly and a minimum of 3/16" Wall Thickness
 - a. Max Length of 38".
8. No suspension will be allowed. This includes, but is not limited to, springs, shocks, rubbers, torsion bars and any other type of damping device.
9. Wheelbase 45" – 49".
10. Maximum track width of the kart is 45".

6. BODY

1. All karts must have a fully wedge Late Model appearing body.
2. No roofs or sail panels allowed.
3. Maximum Spoiler height is 3 inches from deck and 5 inches long.
4. No open fenders are allowed.
5. There must be at least 4" of body behind the rear wheels.
6. No covered or enclosed motors. All motors will remain completely visible at all times.
7. Rear deck height cannot exceed a maximum of 27.5" from the ground and a minimum of 22" high from the ground.
8. Rear quarter panel cannot exceed a maximum of 24" and a minimum of 20".
9. Body must be constructed of .040" aluminum. Plastic may be used for nose, fenders and trim.
10. Doors and quarter panels must be wider than the tires at the bottom of the doors and quarters to help prevent "Wheel Hop".
11. Two door numbers must be present with a minimum height of 12", one on each side of the car
12. Floor pans are required to be made of 0.040 steel or 0.060" aluminum. The floor pans are to be securely bolted. The length of the floor pan must go from the center of the seat to the front of the frame going past the driver's pedals.

5. FUEL

1. PUMP GAS allowed for practices and local racing unless otherwise specified
2. Often, a designated fuel station will be identified.
3. Only petroleum-based unleaded or leaded gasoline as defined by the American Society of Testing and Materials (ASTM) is permitted. The only oxygenates permitted are MTBE and ethanol alcohol, in the same quantity, that are found in pump gasoline. SHARP Engineering reserves the right to require all cars use the same brand and designated grades of gasoline at a given event
4. **Specific Gravity** - The specific gravity must read from .710 to .770 at 60 degrees Fahrenheit, factored by a specific gravity temperature chart.
5. **Laboratory Testing** - SHARP Engineering, LLC reserves the right to conduct laboratory analysis of fuels. Samples for lab analysis may be taken from a competitor's fuel tank at any time at the discretion of the SHARP Technical Inspector.
6. **The specific elements which will be searched for include:** propylene oxide, alcohols (all types), aldehydes, aminodiphenyl, benzene (in excess of EPA limit), benzidine, beryllium compounds, bromine compounds, butadienes, chlorinated compounds, chromates, dioxanes, ethyl acrylate, ethylene oxide, hydrazine compounds, methylene dianiline, naphthylamine, nitrogen compounds (nitromethane, et al.), styrenes, toluidine and xylidine. Also added to this list will be substances deemed to exceed the Threshold Limit Values (TLV) or Biological Exposure Indices (BEI) as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

7. **Penalty for Fuel Rule Violations** - Any competitor (driver and/or owner) caught using any of the illegal fuel, or additives as previously mentioned is subject to a minimum disqualification, forfeit of winnings and points, minimum fine of \$300 to cover the cost associated with lab testing. Further penalties and suspensions will be determined by SHARP Engineering based on the chemical composition of the additive in question.
8. **“LEGAL” FUEL ADDITIVES:** Lubrication additives are permitted provided the resulting mixture meets the specific gravity, lab analysis requirements, etc. described in rule “Fuel.”

6. GEAR/CLUTCH

9. MAX-Torque style shoe clutch is the only clutch you can run
10. You can run 11, 12, 13 or 14 tooth Clutches. (This is to help decrease our rear axle gear for more ground clearance.)
11. No Skip Tooth Sprockets
12. If found with modifications to the clutch:
 - a. First Offense: Disqualified for the night and loss of points
 - b. Second Offense: Disqualified for 2 race nights and loss of all points for the year
 - c. Third Offense: Suspension for 12 calendar months

7. ENGINE

1. Sealed Crate Rules
2. **3-7yr old must have a governor set to 3500 RPM. Governor will be checked with a kart sitting on stand.**
3. The SHARP Sealed Predator 212 engine allowed for this class
4. ALL SEALS MUST REMAIN INTACT (in the event of an issue the motor will be re-certified and new tamper proof seals installed)
5. 3-7 Stock Exhaust as provided with engine NO MODIFICATIONS
6. 7+ will be allowed to run weenie pipe and aftermarket air filter
7. Carb is stock as provided NO MODIFICATIONS, Provided Jet must be run.
8. NO MACHINING OF ANYTHING WHATSOEVER!
9. If found with modifications to the motor or the restrictor plates:
 - a. First Offense: Disqualified for the night and loss of points.
 - b. Second Offense: Disqualified for 2 race nights and loss of all points for the year
 - c. Third Offense: Suspension for 12 calendar months.

8. RACE RULES

1. All drivers must be accompanied by a parent or legal guardian. Unless you are appointed his/ her legal guardian, by law, you cannot sign a release form for them. Therefore they cannot race. Any exception to this rule cannot be made by a track official and must be brought before the track's management or track's insurance carrier for a decision.
2. All cars will be lined up according to their pill draw. Failure to draw a pill before the lineup is turned over to track officials. This will result in the driver starting at the tail of the heat.
3. The scoring tower is off limits to drivers and anyone who is not a track staff member.
4. Age limit is 3-14 years of age. You must provide a copy of your birth certificate before your membership can be provided.
5. Confrontations, arguments, or abrasive behavior with or towards track officials or another parent can result in a suspension of driver, parent or legal guardian, or any member of their

team for at least 2 weeks from all SHARP MINI WEDGE events. This behavior includes, but not limited to:

- a. Throwing a fit on the racetrack or pit area
- b. Using aggressive or insulting tone, language, or gestures towards the track officials, tech officials, scorers, flagman or track owner
- c. Going to another pit to argue with another driver, crew or anyone with a Mini Wedge
- d. Arguing about scoring or judgment calls

9. MISCELLANEOUS

1. Once you enter the racing surface for an event you are expected to be ready to race. If you enter the pits you must join the field at the rear.
2. Do not stop on the track unless directed by officials or you are reporting a hazard or dangerous condition. Once directed to your starting spot, go there immediately.
3. These rules are amended when necessary and any bulletins take precedence.
4. No covered or enclosed motors. All motors will remain completely visible at all times.
5. At least one vertical D door bar must be welded on each side of the driver running from the main rail to side crash bars for driver protection. See rear side view drawing for more details.

10. APPEALS & DRIVER FEEDBACK

Any appeal should be in writing and mailed to the local officiating body.

Any appeal not resolved locally can be brought to the attention of SHARP Engineering LLC via a letter mailed to:

SHARP Engineering LLC
27175 US HWY 80
Portal Ga,30450

In conjunction to a written appeal, the same information MUST be submitted via the online feedback form.

Drivers, Fans, and Track Owners can provide feedback, report suspicious activity, or congratulate us on a job well done via the feedback form. A link can be found on the Main Rules Page on our website.