

Senior Quarter Midget Rules

Dimensions and Weight

- A. Wheelbase - (measured center to center of the axle of EACH side) must be at least 42 inches and no more than 56 inches.
- B. Length - (measures from bumper to bumper) will be limited to no more than 84 inches.
- C. Tread Width - (measured from tire center to tire center) must be at least 28 inches and no more than 36 inches.
- D. Height - (including roll cage) will be a maximum of 50 inches.
- E. Overall weight combined car, driver, and safety gear minimum of 350lbs.

Car Construction

1. All body panels must be readily removable. Body panels rigidly attached to the frame to prevent chassis flex, will not be permitted.
2. All cars must have a body that completely covers the drivers legs, a tail section, and a housing that covers the engine. The tail section may be the engine housing.
3. All body panels, nose and tail sections must not have any sharp edges. There must not be sharp corners, such as square corners. All corners and edges must be rounded in shape.
4. The bottom of the tail section must not be higher than the top of the bumper when normally installed. Holes will be permitted in the tail section for access.
5. The belly pan or the body must enclose the front end or it must be enclosed by using aluminum sheeting at least .040" thick or steel sheeting at least .025" thick. The belly pan must extend from the front axle to the rear firewall. The belly pan must not extend beyond the cross bar member beneath the rear firewall. The belly pan must be flat from side to side. Aerodynamic appendages will not be permitted. The front edge of the belly pan shall be rolled or rounded up, or protected by a metal nose pan that keeps the front edge from catching any objects on the track or damaging objects that the car may run over. The belly pans should not have open holes larger than 1/2 inch in diameter. Excessive holes in the belly pan will not be permitted.
6. All cars must have side panels on both sides of the cockpit and engine compartment. The side cockpit panels must be a minimum of six (6) inches in height and must not exceed 22 inches in height, as measured from the bottom frame tube. 10. The maximum height of the body is 22 inches when measured from the bottom of the bottom frame rail to the top of the body. 11. The right and left body side panels cannot be higher than the

front hood top surface starting at the corner where the side panel meets the hood top surface.

7. The rear sail panels on either side of the cockpit may extend to the top of the roll cage and must not extend forward past a cross plane established by the seat back. The rear sail panels must be supported on all edges by steel frame members.

8. All cars are required to have a minimum of a two (2) inch hole in the right side body panel to easily access the crankshaft flywheel nut for sealing purposes prior to competition.

9. Visors will be permitted, a maximum height of four (4) inches from the front of the halo bar with a total overall length from front to back of 7-1/2 inches. Visors must remain between the uprights and attached securely (zeus buttons or zip ties).

10. All cars must have a kill switch the Driver can reach. The on off switch on the motor must be removed.

11. Motor will be a stock Predator Ghost motor using a non race built clutch for 420, #40, #41 chain (IE inexpensive amazon clutch)

Roll Cage and Frame

A. All cars must have a roll cage that is an integral component of the frame. The roll cage must be adequately braced forward, backwards, and side to side, to secure it in an upright position in case of rollover. Front and rear uprights must completely enclose drivers head and shoulders when sitting upright in the cockpit. The roll cage must extend a minimum of one (1) inch above the driver's helmet when sitting in driving position and upright in the cockpit, when measured from the bottom portion of the roll cage tubing.

B. Roll Cage Construction –The roll cage must be constructed of 4130 steel tubing (chrome moly).

a. The main uprights that form a roll cage that is LESS than 34 inches from the top when measured from the bottom frame rail to the top of the roll cage must be a minimum O.D. of 3/4 inch with a minimum wall thickness of .058 inch.

b. The main uprights that form a roll cage that is MORE than 34 inches from the top when measured from the bottom frame rail to the top of the roll cage must be a minimum O.D of 7/8 inch, with a minimum wall thickness of .058 inch. This roll cage must have two rear support bars that attach to the roll cage no more a maximum of four (4) inches from the top of the roll cage, or not more than (3) inches below from the top of the drivers helmet and extend downward towards the rear of the car and attached to the rear part of the frame. The support bars must be a minimum O.D. of 5/8 inch, with a minimum wall thickness of .049 inch. The support bars must be welded to the roll cage and frame.

Welding is the only acceptable procedure for attaching the support bar to the roll cage. The roll cage must also have 2 front support bars that attach to the top of the roll cage and extend to approximately the front bumper area. These 2 support bars must be constructed using Chrome Moly 4130 tubing and must be a $\frac{3}{4}$ inch minimum outside diameter and .058 inch minimum wall thickness. These 2 support bars must be attached by welding or integral to the roll cage main roll cage bars.

c. The roll cage design must have radii design required. Square intersections and corners will not be permitted. d. Solid metal is not permitted on top of cars.

C. A left side shoulder bar is mandatory on all cars. The left side shoulder bar may be constructed of one of the following:

a. 4130 steel tubing with a minimum O.D. 5/8 inches, with a minimum wall thickness .049 inches

b. Stainless steel tubing with a minimum O.D. 5/8 inches, with a minimum wall thickness, .065 inches

D. The shoulder bar must be securely fastened to the left nerf bar and the rear roll cage upright using a minimum of grade five (5) bolts. The shoulder bar may be attached by welding, mounted with split clamps or nerf style spuds with 8x32 grade five (5) bolts. The shoulder bar must be securely fastened at the nerf end between the leftmost point of the nerf bar and a point (4) four inches inboard of that. The shoulder bar attachment to the roll cage must be at least as high as the top of the tail section.

Tires and Wheels

1. All tires must be QM A35, tires can not be grooved.

2. right side wheels must be 6" rim LF must be 5" rim LR can be either 5" or 6" rim.

Safety.

1. Seat belts are mandatory, no specific expiration date but must be in good shape with no rips or fraying or rust.

2. Helmet. SA 2020 or newer or Snell Foundation or SFI 24.1

3. Fire Suit - All drivers must wear a one or two piece fire resistant suit which fits snugly around the neck, wrists and ankles, exposed skin not allowed. These items must meet SFI Foundation specifications 3.2A1.

4. Gloves – All drivers must wear Nomex or equivalent gloves that must completely cover the hands and fingers. SFI Foundation specifications 3.3 or higher.

5a. Neck Collar - Neck collar is mandatory, must be made of Nomex or equivalent is mandatory except as noted here, recommended rating of SFI Foundation 3.3.

5b. Head & Neck Restraints - SFI approved 38.1 may be used without Neck Collar. Must be renewed within every five (5) years and always be current.

6. Cage net is mandatory on top of roll cage.