



**NATIONAL MOTORSPORT FEDERATION WITH INTERNATIONAL FEDERATION AFFILIATION**

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**2023 SUPER MIDGET CLASS (TAR) SMT**

**The rule what is not specifically mentioned is not permitted, refer to WOMZA Tar Oval Committee/Technical Consultants for further clarity on the matter.**

**Competitor age restriction: 16 – Neck Braces mandatory for under 18 year old;  
Reference to length and widths in the Regulations shall be defined as, length measure in the direction of, from the front of the vehicle to the back and width being measured from left to right of the vehicle;**

**The cars and competitors will conform to the Womza Technical and Construction Regulations in all other aspects of safety.**

<b>SMT 1</b>	<b><u>Eligibility of vehicle and bodies</u></b>
<b>1.1</b>	<b>Not applicable;</b> Both import and local built chassis are permitted
<b>SMT 2.</b>	<b><u>General Safety</u></b>
<b>2.1</b>	Non Contact Racing as herewith defined;
<b>2.2</b>	No deliberate contact, bumping, or shunting will be permitted;
<b>2.3</b>	Ensure all joints in construction are welded properly;
<b>2.4</b>	Sump, gearbox and differential plugs are wired securely;
<b>2.5</b>	It will be mandatory for the fitment of coil spring retainers, preventing the spring from falling free or getting dislodged. The retainer shall be constructed of a minimum of 4 mm steel cable;
<b>2.6</b>	<b>Minimum weight of 450 KG excluding competitor</b>
<b>SMT 3</b>	<b><u>Brakes</u></b>
<b>3.1</b>	<b>No ABS brakes or any other electronic driving aids permitted;</b>
<b>3.2</b>	It shall be mandatory for Midgets to have a braking mechanism as follows;
<b>3.3</b>	<b>Braking on at least three wheels; two front wheels and one on rear axle</b>
<b>SMT 4</b>	<b><u>Car Construction:</u></b>
	<b><u>Roll Cage:</u></b>
<b>4.1.1</b>	Their will be a minimum clearance of 50 mm between the driver’s helmet and any part of the Roll Cage;
<b>4.1.2</b>	Pipe of minimum 30 mm diameter with a wall thickness of 2 mm is used for construction of the roll cage;
<b>4.1.3</b>	The Roll cage must enclose the driver with a minimum of 4 down pipes and 2 cross braces;
<b>4.1.4</b>	The chassis will be constructed of a minimum of 30 mm tubular metal with a minimum wall thickness of 2mm;
<b>4.1.5</b>	The use of chrome moly tubing is permitted;
<b>4.2</b>	<b><u>Nerf Bars:</u></b>
<b>4.2.1</b>	Nerf Bars must be fitted to both sides of the vehicle, bar size maximum 30 mm x 2 mm;

4.2.2	Nerf bars must be bolted on using minimum 6 mm bolts;
4.2.3	Must be designed to protect the full width of the rear tyre of the vehicle;
4.2.4	The nerf bars may not protrude more than 50 mm beyond the rear wheel of the vehicle;
4.3	<b><u>Front:</u></b>
4.3.1	Front bumpers are compulsory and must be constructed of pipe with a maximum measurement of 30 mm x 2 mm;
4.3.2.	Front bumpers may not protrude beyond the width of the chassis at the front, neither may they protrude more than 150 mm beyond a line drawn immediately in front of the 2 front tyres – a tolerance of 50mm shall be permitted;
4.3.3	Engine mounts must be fitted inside the roll cage/chassis and the crank pulley must be in the centre of the cage/chassis
4.4	<b><u>Rear Bumpers or push bars</u></b>
4.4.1	Shall have a maximum diameter of 30mm x 2mm, and if manufactured from aluminum a maximum 38 mm x 4mm – mandatory;
4.4.2	The mid bumper or push bar height shall be between 250mm and 400mm above the ground;
4.4.3	The Bumpers or push bars shall be designed that they do not protrude more than 100mm from the nearest body component;
4.4.4	The rear bumper/push bar mounting points may not exceed the width of the chassis at the rear;
4.4.5	The rear bumper vertical element of the bumper shall mount to a solid point on the vehicle or the other vertical elements;
4.4.6	The nose cone and tailpiece to be constructed to all safety measures;
SMT 5	<b><u>Engine :</u></b>
5.1.1	<b><u>8v and 16v Naturally Aspirated Engines</u></b>
5.1.2	Limited to a maximum of 2450cc
5.1.3	<b>Carburetion</b> is free;
5.1.4	Fuel Injection is free except no slide type throttles permitted;(No competition injection permitted)
5.1.5	Engine management systems are restricted to SA manufactured systems only.
5.1.6	No No2 systems permitted
5.1.7	No forced induction permitted
5.1.8	Internals are free.
5.1.9	Dry Sump systems are permitted
5.2	<b><u>8v and 16v Turbo Charged Engines</u></b>
5.2.1	Restricted to 2100cc
5.2.2	Carburation is free;
5.2.3	Fuel Injection is free except no slide throttles permitted;
5.2.4	Engine management systems are restricted to SA manufactured systems only.
5.2.5	Maximum boost 0.8bar (WOMZA reserves the right to adjust these values in the interest of the Sport)
5.2.6	No Boost controllers permitted
5.2.7	Boost pressure to be measured from intake/throttle body;
5.2.8	Standard head and porting, cams and valve springs are free;
5.2.9	Forged internals permitted (crank, conrods and pistons)
5.2.10	Dry Sump systems are permitted
5.3	<b><u>Rotary Engines (Naturally aspirated)</u></b>
5.3.1	Limited to twin rotor 13B engines,
5.3.2	Porting is free;
5.3.3	Carburetion is free;
5.3.4	Fuel Injection is free excepting the use of slide type throttles is not permitted;

5.3.5	Engine management systems are restricted to SA manufactured systems only.
5.3.6	No turbo or super chargers permitted;
5.3.7	No No2 systems permitted;
5.3.8	No imported parts are permitted (includes, but not limited to – Split Eccentric Shafts, aluminum/titanium rotors, billet housings, aluminum side housings etc)
5.3.9	Dry Sump systems are permitted.
<b>SMT 6</b>	<b><u>Exhausts:</u></b>
6.1	All piping shall be secured with saddles, preventing exhaust pipes from coming loose in the event of it breaking off;
6.2	Exhaust tail pipes shall only pass through the back of the vehicle;
6.3	Effective Silencers are compulsory on all vehicles, Turbo Charged Units (to conform with the 102/8db limits)
<b>SMT 7</b>	<b><u>Fuel, fuel management and carburetion:</u></b>
7.1	Fuel is restricted to 95 unleaded pump fuel (Rotary Engines) and Methanol for Piston Engines.
7.2	M5 Methanol is not permitted
7.3	Lubrication additives may be applied to the fuel.
<b>SMT 8</b>	<b><u>Steering and suspension:</u></b>
8.1	Only solid axles permitted front and rear end;
8.2	Independent suspensions are prohibited;
8.3	Steering mechanism shall be free, with exception of, motorbike handle bars will not be permitted
<b>SMT 9</b>	<b><u>Transmission:</u></b>
9.1	Open;
9.2	No clutches permitted;
<b>SMT 10</b>	<b><u>Wheels and Tyres</u></b>
10.1	Front and Left rear – free;
10.2	All wheel hubs to have studs protruding through nuts;
<b>SMT 11</b>	<b><u>Top Wings;(Mandatory)</u></b>
11.1.1	Midgets – wings may not be wider than the tyre width and/ or maximum 1300mm x 1300mm;
11.1.2	In other words, Wings are not permitted to be wider than the rear track of the vehicle, measuring from the left to the right rear tyres, no overhang will be permitted;
11.1.3	All wings to be mounted with a minimum of 10 mm bolts;
11.2	<b><u>Nose Wing: (Optional)</u></b>
11.2.1	Nose wings shall not exceed 610mm x 610mm;
11.2.2	Nose wing end plates shall be a maximum of 610mm x 300mm (height);