2024 SUPER MID GET 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.TC will be *GERHARD COMBRINK*, FOR THE MEASURING OF ENGINES.HE IS ONLY MAHEM TC,OTHER TC'S WILL BE USED AS PER VENUE

Competitor age restriction: 16(The year the competitor turns 16) – Neck Braces mandatory for ALL DRIVERS; 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.

SMT 1	**Eligibility of vehicle and bodies**
1.1	**Not applicable.** Both import and local built chassis are permitted
SMT 2.	**General Safety**
2.1	Non-Contact Racing as herewith defined.
2.2	No deliberate contact, bumping, or shunting will be permitted.
2.3	Ensure all joints in construction are welded properly;
2.4	Sump, gearbox and differential plugs are wired securely (Not applicable to imported Halibrand diffs);Oil filters to be strapped also
2.5	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 3 mm steel cable or minimum of 20mm wide strap;
2.6	**Minimum weight of 450 KG excluding competitor**
SMT 3	**Brakes**
3.1	**No** ABS brakes or any other electronic driving aids permitted;
3.2	It shall be mandatory for Midgets to have a braking mechanism as follows;
3.3	**Braking on at least three wheels; two front wheels and one on rear axle**
SMT 4	**Car Construction:**
	Roll Cage:
4.1.1	Their will be a minimum clearance of 50 mm between the driver's helmet and any part of the Roll Cage;
4.1.2	Pipe of minimum 30 mm diameter with a wall thickness of 2 mm is used for construction of the roll cage;
4.1.3	The Roll cage must enclose the driver with a minimum of 4 down pipes and 2 vertical/cross braces behind the seat (A frame type down pipes allowed);
4.1.4	The chassis will be constructed of a minimum of 30 mm tubular/Round metal with a minimum wall thickness of 2mm;
4.1.5	The use of chrome moly tubing is permitted;
4.2	**Nerf Bars:**
4.2.1	Nerf Bars must be fitted to both sides of the vehicle, bar size minimum of 22mm x 2mm,maximum 30 mm x 2 mm;

4.2.2	Nerf bars must be bolted on using minimum 5 mm bolts with lock nuts;
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	**Front:**
4.3.1	Front bumpers are compulsory and must be constructed of pipe with a maximum measurement of 30 mm x 2 mm, minimum of 22mm x 2mm
4.3.2.	Front bumpers may not protrude beyond the width of the chassis at the front, neither may they protrude more than 350 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 center of the cage/chassis. There will be a 32mm tolerance to the inside of the car and a 76mm tolerance to the outside of the car
4.4	**Rear Bumpers or push bars**
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 so that they do not protrude more than 150mm 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	**Engine :**
5.1.1	**8v/12v/16v/20v Naturally Aspirated Engines**
5.1.2	Limited to a maximum of 2450cc
5.1.3	**Carburetion** is free;
5.1.4	Fuel Injection is free except no slide type throttles permitted;(No competition injection permitted; Hill born type ect)
5.1.5	Engine management systems are restricted to SA manufactured systems only (With only the following allowed Power Mods, Dictator, Spitronic,Blue Arc and Gotech)
5.1.6	No secondary ecu systems permitted.
5.1.7	No forced induction permitted (Turbo / Super Charged)
5.1.8	Internals are free but must be steel/competition type (Forged/steel)-No aluminum conrods allowed.
5.1.9	Dry Sump systems are permitted, Electrical water pumps allowed.
5.2	**8v/12v/16v/20v Turbo Charged Engines (PLEASE SEE SMT 12)**
5.2.1	Restricted to 2100 cc
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 (With only the following allowed Power Mods, Dictator, Spitronic,Blue Arc and Gotech).
5.2.5	Maximum boost 0.8bar (WOMZA reserves the right to adjust these values in the interest of the Sport, and may allow different engines to run different boost) (Turbo Rotary Engines to be confirmed.)
5.2.6	Only manual screw type pressure controller valves (Boost control) will be allowed inside the cockpit. The reason for this is to prevent the car reaching max boost as the engine will be "BOGGING" causing a sudden loss of power.
5.2.7	A 1" aluminum bung must be welded on the intake AFTER the butterfly to fit a low-pressure air dump valve (This will be controlling the boost);
5.2.8	No Billet heads allowed, Standard head and porting allowed, cams and valve springs are free hydraulic lifter may be change to solid lifters;

5.2.9	Only Forged internals permitted, standard type cranks are allowed with aftermarket racing pistons and STEEL RODS, NO ALIUMINIUM CONRODS WILL BE ALLOWED
5.2.10	Dry Sump systems are permitted, Electrical water pumps allowed. Mechanical Fuel pumps allowed.
5.3	**Rotary Engines (Naturally aspirated/Turbo)**
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 Microtech LT/MT, Fueltech FT450, Blue ARC ecu range only. Handheld devices will be allowed in the cockpit.
5.3.6	The RENISIS 13B-MSP engine in STD form may be Turbo (This test phase may be reviewed) Turbo will be allowed on 13B STD engine, no bridge/peripheral port will be allowed.
5.3.7	No secondary ecu 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, Electrical water pumps allowed.
SMT 6	**Exhausts:**
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 (except for turbo charged engines)
6.3	Effective Silencers are compulsory on all vehicles except for Turbo Charged Units (to conform with the 102/8db limits)
SMT 7	**Fuel, fuel management and carburetion:**
7.1	Fuel is restricted to 95 unleaded pump fuel or 50/50 Ethanol mix (Rotary Engines only) and Methanol for Piston Engines.
7.2	M5 Methanol is not permitted
7.3	Lubrication additives may be applied to the fuel. Additives must be sealed when fuel are changed.
SMT 8	**Steering and suspension:**
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.
SMT 9	**Transmission:**
9.1	Open;
9.2	No clutches permitted;
SMT 10	**Wheels and Tyres**
10.1	Left Front/Right Front/Left rear Limited to 13" Rims and 10" width. Right Rear 13" Rims with maximum of 13" tyre width
10.2	All wheel hubs to have studs protruding trough nuts;
SMT 11	**Top Wings;(Mandatory)**
11.1.1	Midgets – wings may not be wider than the tyre width and/ or maximum 1300mm x 1300mm;(Center foil/Blade) 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;
11.1.2	All wings to be mounted with a minimum of 6 mm bolts;
11.2	**Nose Wing: (Optional)**
11.2.1	Nose wings shall not exceed 610mm x 610mm;(Center foil/Blade) Nose wing end plates shall be a maximum of 610mm x 300mm (height);

SMT 12 EXPLAINDED

The idea is to install a 1”(size may differ, but will all be the same) pressure relieve valve to control the boost on all cars, all valve will be exactly the same and can be tested on race day and may also be swopped around if requested by TC,The ideal situation will be to get all cars on the track as they are but limited them to some sort of matching power without having to spend money on new/other engines. The boost controller in the cockpit is there to adjust the boost to just under the blow off valve relieve, so the waste gate open before the relieve valve as this will cause the car “BOGGING” lost of power for small period of time.