



# WORLD OF MOTORSPORT ZA

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## MS - 2LITRE MODIFIED SALOON (TAR) 2017

The rule of what is not specifically allowed is not permitted.

<b><u>Introduction:</u></b>	
Competitor age restriction: Only competitors 16 years old and over are permitted to enter into this class;	
<b><u>MS 1</u></b>	<b><u>Eligibility of vehicle and bodies</u></b>
1.1	Any saloon, GT or Coupe type car or body replicated, semi or full space framed version may be used, with the exception of station wagons and panel vans are prohibited;
1.2	LDV's bodies may be used, with the following limitation which will not be negotiated;
1.3	Front and rear wheel driven vehicles are permitted;
1.4	Bodywork must be centrally placed on the chassis, it may not be offset;
1.5	Any drive train, cooling, axle or brake component may be used provided the donor vehicle complies with the type of car or body;
<b><u>MS 2</u></b>	<b><u>General Safety</u></b>
2.1	All other items not noted under the class regulations, shall be adhered to under race regulations and technical & construction regulations;
2.2	Non Contact Racing Class;
2.3	Ensure that all joints in construction are welded properly;
2.4	Sump, gearbox and differential plugs are to be wired securely;
2.5	Dual springs on throttles to be fitted, thus preventing throttle jams;
<b><u>MS 3.</u></b>	<b><u>General Racing Modifications</u></b>
	<b>The Following listed modifications shall be accepted as racing modifications in the class:</b>
3.1	<b>The Following items are permitted:</b>
3.1.1	Dry sump lubrication as long as the oil lines are properly shielded and the competitor is shielded from the tank/ Oil cooler;
3.1.2	Mechanical fuel injection;
3.1.3	Roller rockers permitted;
3.1.4	Flywheels may be lightened and cast flywheels may be replaced with aluminum or steel fly wheels;
3.1.5	Flex plates are allowed.
3.2	<b>The following items are free:</b>
3.2.1	Pulley size;
3.2.2	Pistons and piston rings;
3.2.3	Connecting rods;
3.2.4	Crankshafts;

3.2.5	Compression ratios;
3.2.6	Bore and stroke ratios;
3.2.7	Valve and tappet covers are free with the condition that the cover does not form part of the valve train;
3.2.8	Sumps are free in respect of volume and design;
3.2.9	Fuel Pumps are free with regards of operation and capacity;
3.2.10	Camshaft profiles are free as long as the number of lobes and their location are not altered;
3.2.11	Flexible engine mountings may be made solid;
3.2.12	Fuel pressure regulators;
3.2.13	Dellorto and weber carburetor parts may be interchanged;
3.2.14	Induction and ram tubes;
3.2.15	Pressure plates;
3.3	The method of camshaft drive may not change;
<b><u>MS 4</u></b>	<b><u>Bumpers:</u></b>
4.1	No external steel bumpers permitted refer to internal bumper regulation;
4.2	Internal bumper construction refer Technical and Construction regulations;
4.3	Only plastic or fiberglass bumpers not exceeding 3 mm thickness may be fitted externally for cosmetic purposes only, no steel stiffeners permitted;
4.4	No piping to protrude outside of bodywork;
<b><u>MS 5</u></b>	<b><u>Brakes</u></b>
5.1	Any 4 Pot caliber may be used;
5.2	Master cylinders are free;
5.3	Aftermarket pedal boxes may be used;
<b><u>MS 6</u></b>	<b><u>Construction and Roll Cage</u></b>
6.1	Refer to T & C regulations;
6.2	No engine off set allowed;
<b><u>MS 7</u></b>	<b><u>Dimension and Weights</u></b>
7.1	Weight of the car including competitor shall be a minimum of 800kg and excluding fluids;
7.2	Wheelbase of the vehicle must be within 50mm of the original manufacturers prescribed specifications; and
7.3	All four wheels of the vehicle must fit within the body of the vehicle, which determines the maximum dimensions;
7.4	Maximum length and width of the vehicle shall include the wing and aerofoil, it follows
7.5	Maximum length of the vehicle is 5000mm;
7.6	Maximum width of the vehicle is 2000mm;
<b><u>MS 8</u></b>	<b><u>Engine</u></b>
8.1	The use of an engine originating from another model manufactured by the same manufacturer or the use of an engine from another manufacturer shall be permitted, provided that such engine complies with the criteria set out;
8.2	Engines utilized, will only be permitted, if more than 500 units were sold of the vehicle from which it originated within South Africa;
8.3	16 Valve, 2 litre engines permitted, with single throttle body, not greater than 70mm; The engine must be used in <u>standard form</u> , with single throttle body, exhaust system, ignition, management and clutch/fly wheel configuration free; No other modifications are permitted.
8.4	Any 3 or 4 Cylinder 4 stroke piston driven 2 valve per cylinder, single cam overhead valve or overhead cam permitted,
8.5	Maximum 2100cc;

8.6	No turbo or super charging allowed, (forced induction);
8.7	Fuel injection systems, ignition systems and engine management systems are free; with individual throttle bodies not exceeding 48mm.
8.8	No slide type throttle bodies permitted;
8.9	Choke tubes sizes are free;
8.10	Cylinder head and cylinder block must be utilized in combination as fitted to vehicles;
8.11	This follows that any cylinder head of the same make as the cylinder, block can be interchanged as long as the cylinder head and cylinder block complies with the engine units;
8.12	The bolt pattern of the head and the block must be the same;
8.13	Modifications to the engine is free, unless stated elsewhere in the regulations;
8.14	<b><u>Engine positioning</u></b>
8.14.1	The rear face of the engine is where the bell housing and the engine meet;
8.14.2	The rear face will not be more than 600mm back of centre line of the front wheels;
8.14.3	The centre line will be measured as per diagram;
<b>MS 9</b>	<b><u>Exhaust</u></b>
9.1	All piping shall be secured with saddles, prevent exhaust pipes from coming free in the event of it break off;
9.2	Exhaust tail pipes passing out the sides of the vehicle may only do so at a maximum height of 450mm, measured from the top of the pipe to the ground;
<b>MS 10</b>	<b><u>Fuel</u></b>
10.1	Methanol, Avgas, racing and pump fuel allowed, no enhancements;
10.2	Methanol lubricants may be used such as Castrol R40 or castor oil;
10.3	It is highly recommended that methanol using vehicles do have fire extinguishers fitted to the competitor compartment, with all safety measures taken when fitting extinguishers, preventing them dislodging in an event of impact;
10.4	Competitors using 16v engines are restricted to pump fuel only. (for a trial period. WOMZA reserves the right to alter this upon further investigation. This alteration may not take place within 30 days of a major event)
<b>MS 11</b>	<b><u>Steering and suspension</u></b>
11.1	Steering rack are free
11.2	Suspension design is free but limited to either commercially available suspension uprights as fitted to vehicles described in item 1.1 above or locally fabricated components;
11.3	Adjustable spring platforms may be fitted;
11.4	Competition springs are permitted;
11.5	The use of rose type joints are permitted;
11.6	Shock absorbers are free but may have only one adjustment for either bump or rebound;
11.6.1	The total limit permitted is 4, with one per corner;
11.6.2	No remote shock absorber reservoirs may be used;
11.7	Power steering is permitted;
11.8	Suspension may be designed with an off set;
11.9	A maximum of 6 links may be used on the rear suspension;
11.10	Independent rear suspensions are permitted;
<b>MS 12</b>	<b><u>Transmission</u></b>
12.1	Gearboxes free;
12.2	Gear ratios are free;
12.3	Limited slip diff are allowed;
12.4	Only space frame vehicles may convert from front wheel drive system to a rear wheel drive

	system to a rear wheel drive;
<b>MS 13</b>	<b><u>Wheels and tyres</u></b>
13.1	Restricted to 205/60/13 Yokohama A048 Semi slick tyres and Bridgestone 15 inch semi slick tyres only.
13.2	Under No circumstances may any name or size be buffed off from the tyre walls;
13.3	All tyres have to be presented at scrutineering;
13.4	Each Competitor is restricted to 6 new tyres per National Championship event only.
<b>MS 14</b>	<b><u>Wings</u></b>
14.1	Wind end plates may not exceed 500mm x 500mm and may be offset;
14.2	Wings to be 50mm narrower than the width of the vehicle;
14.3	Wing length- Maximum 1200mm;
14.4	Wing height- Maximum 500mm (Side Plates);
14.5	Wing to be mounted from “B” pillar backwards;
14.5	The number of vanes are free, but they must be all within the dimensions of the endplates;
14.6	Height of wing from the highest point of the roof is a max of 300mm.