



NATIONAL MOTORSPORT FEDERATION WITH INTERNATIONAL FEDERATION AFFILIATION

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MS – 2.1 LITRE MODIFIED SALOON (TAR) 2023 DRAFT

<u>Introduction:</u>	
Competitors may enter in this class in the Year that they turn 15.	
<u>MS 1</u>	<u>Eligibility of vehicle and bodies</u>
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 which are prohibited;
1.2	LDVs may be used
1.3	Front or rear wheel driven vehicles are permitted;
<u>MS.2</u>	<u>Bumpers</u>
1.	Only plastic or fiberglass bumpers may be fitted externally.
<u>MS 3</u>	<u>Brakes</u>
3.1	Calipers are free including the use of race type calipers.
3.2	Master cylinders are free;
3.3	Aftermarket pedal boxes may be used;
3.4	ABS systems are not permitted
<u>MS 4</u>	<u>Dimension and Weights</u>
4.1	Weight of the car including competitor shall be a minimum of 800kg.
4.2	Wheelbase of the vehicle must be within 50mm of the original manufacturers prescribed specifications
4.3	All four wheels of the vehicle must fit within the body of the vehicle, which determines the maximum dimensions
4.4	Maximum width of the vehicle is 2000mm;
<u>MS 5</u>	<u>Engine and modifications</u>
5.1	Any 4 cylinder 8 valve or 16 valve engine may be utilized with the following conditions
5.1.1.	Engine may not exceed 2100cc
5.1.2	Engine may only be naturally aspirated
5.1.3	Modifications to the cylinder head are free
5.1.4	Sump is free
5.1.4.1	Dry Sump systems are permitted
5.1.5	Oil systems are free
5.1.6	Exhaust systems are free
5.1.7.1	Individual throttle body may not exceed 48.1mm
5.1.7.2	Plenum is free but restricted to single throttle body not exceeding 70.1mm
5.1.7.3	Side draught carburetors may not exceed 48mm

5.1.7.4	Chokes are free
5.1.7.5	Slide type throttles are not permitted
5.1.8.1	Ignition systems are free on vehicles using carburetors
5.1.8.2	Ignition systems are restricted to South African manufactured systems on vehicles using EFI
5.1.9	All other engine modifications are free
5.2	<u>Engine positioning</u>
5.2.1	The rear face of the engine is where the bell housing and the engine meet and may not be more than 600mm back of centre line of the front wheels;
MS 5	<u>Belly Plate</u>
5.3	A steel or aluminium belly plate must be installed between the chassis rails to cover the area under the engine and gearbox. This belly plate must be secured using rivets or bolts. Cable ties and Tex screws are NOT permitted. It must be effective in containing any fluid that may drip out of the engine and gearbox.
MS 6	<u>Fuel</u>
6.1	Restricted to Methanol, Racing fuel (max 102) and 95 Octane Pump fuel
6.2.1	M5 Methanol specifically excluded
6.2.2	Lubricating additives may be added to Methanol and must be reflected in the competitors sign on sheet by listing the additive and mix ratio. These specific products are restricted to Silkolene Castorene R40S, Liquid Power Methanol Lubrication, Top Lube Alcohol Fuels Lubrication and Castor Oil
6.2.3	In the event of supplying control fuels competitors must provide a sealed bottle of the prescribed lubricant failing which they will accept the lubricant provided by the Officials
6.2.3	The filling Station with the closest proximity to the Race Venue is the Official Supplier of 95 Octane fuel
MS 7	<u>Steering and suspension</u>
7.1	Steering rack is free
7.1.1	Power steering systems are permitted
7.2	Suspension design is free but limited to either commercially available suspension uprights as fitted to vehicles described in MS 1 above or locally fabricated components
7.3	Adjustable spring platforms may be fitted
7.4	Competition springs are permitted
7.5	The use of rose type joints are permitted
7.6	Shock absorbers are free but restricted to a single adjustable unit only
7.6.1	May only have 1 shock per wheel
7.6.2	No shock absorber with remote reservoirs may be used
7.7	Independent rear suspensions are not permitted
7.8	Only Differential Housings from road going vehicles is permitted
MS 8	<u>Transmission and drive train</u>
8.1	Gearboxes free;
8.2	Gear ratios are free;
8.3	Limited slip diff are allowed;
8.4	Flywheels free
8.5	Clutches and pressure plates free
MS 9	<u>Wheels and tyres</u>
9.1	Restricted to 195/55/15 and 205/60/13 Yokohama A048 Semi slick medium or soft compound tyres and the 195/55/15 Dunlop H1 compound only.

9.2	Specific Championship Regulations will determine Tyre allocations.
9.3	Competitors restricted to a maximum of 6 tyres per event only.
MS 13	<u>Wings</u>
13.1	Wings are optional
13.2	Wing designs, positioning and sizes are free with the following restrictions
13.3	Wing may not protrude beyond the side of the vehicle.
13.4	Wing end plates may not exceed 500mm x 500mm and may be offset
13.5	Vehicles restricted to one wing only
13.6	Two tier wings are permitted provided they are contained within the prescribed wing endplates
13.7	Highest part of the wing may not protrude more than 300mm above the highest part of the original roof when the vehicle is on level ground (wing endplates excluded)
13.8	Wing may not protrude more than 200mm behind the rear bumper, when the rear bumper is mounted correctly (wing endplates excluded). Where Competitors mount rear bumpers further back to exploit the rearward positioning rule the Officials will deduct the measurement of the offset difference of the misaligned bumper by comparing it to vehicles where the bumper is mounted correctly.