



WORLD OF MOTORSPORT ZA

P.O. BOX 12387, BRAKPAN NORTH, 1545
 TEL: 011 740 1206 / FAX: 086 508 2388
 ann@womzasa.co.za

2021

NATIONAL MOTOR SPORT FEDERATION
 WITH INTERNATIONAL FEDERATION AFFILIATION

1660 MODIFIED CLASS (SS) TAR 2021*

Introduction:	
Competitor age restriction: Competitors may compete in this class from the Year in which they turn 15.	
SS 1.	Eligibility of vehicle and bodies:
1.1	Any saloon, GT or Coupe type car or body replicated, semi or full space framed version may be used, except for station wagons and panel vans which are prohibited.
1.2	LDV's bodies may be used, with the following limitation which will not be negotiated:
1.3	Any LDV body which can carry a maximum load of 650kg, it follows that the Golf Caddy being the maximum which can be used.
1.4	Front and rear wheel drive vehicles are permitted.
1.5	Bodywork must be centrally placed on the chassis and may not be offset.
1.6	Any drive train, cooling, axle or brake component may be used provided the donor vehicle complies with the type of car or body.
SS 2.	General Racing Modifications
2.1	The following listed modifications are free
2.1.1	Flywheels
2.1.2	Pressure Plates
2.1.3	Clutches
2.1.4	Pulley sizes and types including adjustable Vernier pulleys
2.1.5	Pistons and piston rings with exception of forged pistons which are not permitted
2.1.6	Connecting rods from various models of road going cars
2.1.7	Crankshafts from various models of road going cars
2.1.8	Compression ratios
2.1.9	Bore and stroke ratios
2.1.10	Valve and tappet covers are free with the condition that the cover does not form part of the valve train.
2.1.11	Sumps
2.1.12	Fuel pumps
2.1.13	Fuel pressure regulators
2.1.14	Camshafts
2.1.15	Dellorto and Weber carburetors parts may be interchanged
2.2	The following listed modifications are not permitted
2.2.1	The method of camshaft drive may not change
2.2.2	Dry sump systems
2.2.3	Use of flexplates
SS 2.6	Ignition/Engine Management
2.6.1	Any Standard distributor may be used.
2.6.2	A Standard electronic ignition may be fitted
2.6.3	Any locally manufactured management system may be used for fuel and ignition management on vehicles running EFI. (Dictator, Spitronic, Mr. Turbo, Gotech etc.)
2.6.4	Any aftermarket Spark Booster may be fitted to engines using carburetors and distributor type ignitions.

SS 2.7 2.7.1 2.7.2	The following items are permitted: Electronic Water Pumps ARE permitted. Roller rockers ARE permitted.
SS 3. 3.1 3.2 3.3	Brakes: Restricted to 4,2 and single pot brake calipers from road going vehicles only. Master cylinders are free. Aftermarket pedal boxes may be used.
SS 4. 4.1 4.2 4.3 4.4 4.5 4.6 4.7	Dimension and Weights: Weight of the car including competitor shall be a minimum of 800kg weighed pre, during or post event with no tolerance permitted. Wheelbase of the vehicle must be within 50mm of the original manufacturers prescribed specifications. All four wheels of the vehicle must fit within the body of the vehicle, which determines the maximum dimensions. Maximum length and width of the vehicle shall include the wing. Maximum length of the vehicle is 5000mm. Maximum width of the vehicle is 2000mm. All 4 wheels of the vehicle must fit within the body of the vehicle which determines the maximum dimensions.
SS 5. 5.1 5.2 5.3 5.4 5.5 5.6 5.6.1 5.6.2 5.6.3 5.6.4 5.6.5 5.6.6 5.7 5.7.1 5.7.2 5.8 5.9 5.10 5.11	Engine: Donor Engines are free provided they are commercially available and do not have sport type applications Engine displacement may not exceed 1660cc Only 3 or 4-cylinder 4 stroke engines permitted Engines restricted to 2 valves per cylinder Turbo or super charging is not permitted Fuel injection systems are permitted Injectors are free but limited to one injector per cylinder only Single throttle body on Plenum system may not exceed 70mm The Plenum design is free. Individual throttle bodies (4) are permitted and may not exceed 43mm in size Side Draft Carburetors may be modified to be a throttle body but may not exceed 43mm Fuel rails free Side Draught carburetors restricted to 40mm Choke tubes sizes free All modifications to the carburetor and jets are permitted provided the carburetor does not measure more than 40mm at the throat and butterflies. Ram air system from positioning of ducting and air filter systems is permitted Fasteners on engines free Remote oil filter housings and aftermarket oil filters are permitted. Oil coolers are permitted.
SS 6. 6.1	Engine positioning: - Rear wheel drive The rear face of the engine is where the bell housing and the engine meet will not be more than 600mm back of Centre line of the front wheels.
SS 7. 7.1 7.2 7.3	Exhausts: All piping shall be secured with saddles, preventing exhaust pipes from coming free in the event of it breaking off. Exhaust tail pipes passing out the side of the vehicle may only do so at a maximum height of 450mm and be level or downward facing, measured from the top of the pipe to the ground. Branches are permitted.

<p>SS 8. 8.1 8.2 8.3</p>	<p><u>Fuel</u> Methanol, Avgas, racing and pump fuel allowed, without enhancements. Methanol lubricants may be used such as Castrol R40 or Castor Oil. 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 the dislodging in an event of impact.</p>
<p>SS 9. 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13</p>	<p><u>Steering and Suspension:</u> Only commercially available steering racks and steering boxes or quick ratio versions thereof as fitted to vehicles. Suspension design is free but limited to either commercially available suspension uprights as fitted to vehicles described in item SS 1. above or locally fabricated components. Adjustable spring platforms may be fitted. Competition springs are permitted. The use of rose type joints are permitted. Only South African made Gabriel, Armstrong or Monroe shock absorbers may be used. The total limit permitted is 4, with one per corner. No remote shock absorber reservoirs may be used. Power steering is permitted. Suspension may be designed with an offset. A maximum of 5 links may be used on the rear suspension. Wish bone type suspensions are allowed on space frames or semi space frames. Front Wheel Drive Spaceframe cars may only use a beam rear axle.</p>
<p>SS 10. 10.1 10.2 10.3 10.4 10.5</p>	<p><u>Transmission:</u> Only local differentials and gearboxes shall be permitted. No straight cut boxes permitted. Gear ratios are free. Only lock differentials permitted. Limited slip differentials not permitted.</p>
<p>SS 11. 11.1 11.1.1 11.1.2 11.1.3 11.1.4 11.2 11.3 11.4</p>	<p><u>Wheels and Tyres</u> Restricted to the following types of tyres - Dunlop FM800A 195/15 82V - Continental Premium Contact 5 195/15 82V - Hankook Ventus V12 Evo 2 195/15 82V - Apollo Alnac 205/13 87H Tyre profiles are free Specific championship regulations to determine tyre allocations. Competitors may not use more than 6 tyres an event</p>
<p>SS 12. 12.1 12.2 12.2.1 12.2.2</p>	<p><u>Wings:</u> Wings are optional Wing designs, positioning and sizes are free with the following restrictions Wing may not protrude beyond side of vehicle Wing endplates may not exceed 500x500mm and may be offset to each other</p>