



**NATIONAL MOTORSPORT FEDERATION WITH INTERNATIONAL FEDERATION AFFILIATION**

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**1660 TIN TOP 1660 CLASS (SS) TAR 2023 (DRAFT)**

<b>Introduction:</b>	
<b>Competitor age restriction: Competitors may compete in this class from the Year in which they turn 13.</b>	
<b>TT 1.</b>	<b><u>Eligibility of vehicle and bodies:</u></b>
<b>1.1</b>	Any saloon, GT, Coupe or LDV type vehicle may be utilized provided that <ul style="list-style-type: none"> <li>- Original steel roof, roof pillars and bulkhead is retained.</li> <li>- Front strut towers may be altered and replaced with tubing.</li> <li>- Original steel Floor is retained.</li> <li>- The bulkhead and floor may be modified to accommodate the gearbox.</li> <li>- Front suspension components must match those from the vehicle utilized.</li> <li>- Rear suspension may be modified to a 4 or 5 Link system.</li> </ul>
<b>1.2</b>	Front and rear wheel drive vehicles are permitted.
<b>1.3</b>	Bodywork must be centrally placed on the chassis and may not be offset.
<b>TT 2.</b>	<b><u>General Racing Modifications</u></b>
<b>2.1</b>	<b>The following listed modifications are free</b>
<b>2.1.1</b>	Flywheels
<b>2.1.2</b>	Pressure Plates
<b>2.1.3</b>	Clutches
<b>2.1.4</b>	Pulley sizes and types including adjustable Vernier pulleys
<b>2.1.5</b>	Pistons and piston rings with exception of forged pistons which are not permitted
<b>2.1.6</b>	Connecting rods from various models of road going cars
<b>2.1.7</b>	Crankshafts from various models of road going cars
<b>2.1.8</b>	Compression ratios
<b>2.1.9</b>	Bore and stroke ratios
<b>2.1.10</b>	Valve and tappet covers are free with the condition that the cover does not form part of the valve train.
<b>2.1.11</b>	Sumps
<b>2.1.12</b>	Fuel pumps
<b>2.1.13</b>	Fuel pressure regulators
<b>2.1.14</b>	Camshafts
<b>2.1.15</b>	Dellorto and Weber carburetors parts may be interchanged
<b>2.2</b>	<b>The following listed modifications are not permitted</b>
<b>2.2.1</b>	The method of camshaft drive may not change
<b>2.2.2</b>	Dry sump systems
<b>2.2.3</b>	Use of flexplates
<b>TT 2.6</b>	<b><u>Ignition/Engine Management</u></b>
<b>2.6.1</b>	Any Standard distributor may be used.
<b>2.6.2</b>	A Standard electronic ignition may be fitted
<b>2.6.3</b>	EFI Managements restricted to Dicktator, Spitronics, Power Mods only.
<b>2.6.4</b>	No adjustments from the cockpit are permitted on EFI systems.

2.6.5	Any aftermarket Spark Booster may be fitted to engines using carburetors and distributor type ignitions.
TT 2.7 2.7.1 2.7.2	<b>The following items are permitted:</b> Electronic Water Pumps ARE permitted. Roller rockers ARE permitted.
TT 3. 3.1 3.2 3.3 3.4	<b>Brakes:</b> Restricted to 4,2 and single pot brake calipers from road going vehicles only. Only 4 pot calipers from the Toyota Hilux may be utilised. Master cylinders are free. Aftermarket pedal boxes may be used.
TT 4. 4.1 4.2 4.3 4.4 4.5	<b>Dimension and Weights:</b> 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 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.
TT 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 5.12	<b>Engine:</b> 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 <b>Fuel injection systems are permitted</b> 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 <b>Side Draught carburetors restricted to 40mm</b> 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. Slide Type Throttles are NOT permitted. 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.
TT 6. 6.1	<b>Engine positioning: - Rear wheel drive and Belly Plate</b> The engine may only be moved backwards as far as the original bulkhead.
6.2 6.2.1	<b>Belly plate</b> A steel or aluminium belly plate 'box' 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.

<b>TT 7.</b>	<b><u>Exhausts:</u></b>
<b>7.1</b>	All piping shall be secured with saddles, preventing exhaust pipes from coming free in the event of it breaking off.
<b>7.2</b>	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.
<b>7.3</b>	Branches are permitted.
<b>TT 8.</b>	<b><u>Fuel</u></b>
<b>8.1</b>	Only methanol fuel without enhancements may be used.
<b>8.2</b>	M5 Methanol is specifically excluded
<b>8.3</b>	Lubrication additives for Methanol are restricted to Silkolene Castorene R40S, Liquid Power Methanol Lubrication, Top Lube Alcohol Fuels Lubrication and castor oil.
<b>8.4</b>	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.
<b>TT 9.</b>	<b><u>Steering and Suspension:</u></b>
<b>9.1</b>	Only commercially available steering racks and steering boxes or quick ratio versions thereof as fitted to vehicles.
<b>9.2</b>	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.
<b>9.3</b>	Use of rose-joints is permitted on the front suspension.
<b>9.4</b>	Adjustable spring platforms may be fitted.
<b>9.5</b>	Competition springs are permitted.
<b>9.6</b>	The use of rose type joints are permitted.
<b>9.7</b>	Only South African made Gabriel, Armstrong, Monroe and KYB shock absorbers may be used.
<b>9.8</b>	The total limit permitted is 4, with one per corner.
<b>9.9</b>	No remote shock absorber reservoirs may be used.
<b>9.10</b>	Power steering is permitted.
<b>9.11</b>	Front Suspension components must be those of the vehicle utilized.
<b>9.12</b>	Rear suspension may be modified to a link type system.
<b>TT 10.</b>	<b><u>Transmission:</u></b>
<b>10.1</b>	Only local differentials and gearboxes shall be permitted.
<b>10.2</b>	No straight cut boxes permitted.
<b>10.3</b>	Gear ratios are free.
<b>10.4</b>	Only lock differentials permitted.
<b>10.5</b>	Limited slip differentials not permitted.
<b>TT 11.</b>	<b><u>Wheels and Tyres</u></b>
<b>11.1</b>	Restricted to the following types of tyres
<b>11.1.1</b>	- Dunlop FM800A 195/15 82V
<b>11.1.2</b>	- Continental Premium Contact 5 195/15 82V
<b>11.1.3</b>	- Hankook Ventus V12 Evo 2 195/15 82V
<b>11.1.4</b>	- Apollo Alnac 205/13 87H
<b>11.2</b>	Tyre profiles are free
<b>11.3</b>	Specific championship regulations to determine tyre allocations.
<b>11.4</b>	Competitors may not use more than 6 tyres an event
<b>TT 12.</b>	<b><u>Wings:</u></b>
<b>12.1</b>	Wings are optional
<b>12.2</b>	Only one wing is permitted
<b>12.3</b>	Wing designs, positioning and sizes are free with the following restrictions
<b>12.4</b>	Wing may not protrude beyond side of vehicle
<b>12.5</b>	Wing endplates may not exceed 500x500mm and may be offset to each other
<b>12.6</b>	

<b>12.7</b>	<p>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)</p> <p>Wing may not protrude more than 200mm behind the rear bumper, when the 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.</p>
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