



# WORLD OF MOTORSPORT ZA

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## NATIONAL HOTROD NHR (TAR) 2017

The rule of what is not specifically allowed is not permitted, refer to WOMZA Tar Oval Committee/Technical Consultants for further clarity on the matter.

### Introduction:

**Competitor age restriction: Only competitors at the age of 16 years old and over are permitted to enter into this class.**

<b><u>NHR 1</u></b>	<b><u>Eligibility of vehicle and bodies</u></b>
1.1	Restricted to space Framed Vehicles with composite bodies only.
1.2	Original Tin top vehicles prohibited.
1.3	Only rear wheel drive vehicles are permitted;
1.4	Any gearbox, transmission component, axle, brake component may be used from road going donor vehicles.
1.5	Any engine from any car that complies with NHR 7 of these regulations may be used.
<b><u>NHR 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;
<b><u>NHR 3</u></b>	<b><u>Construction and Roll Cage</u></b>
3.1	Refer to T & C Regulations;
<b><u>NHR 4</u></b>	<b><u>Bumpers:</u></b>
	Refer to T & C Regulations
<b><u>NHR 5</u></b>	<b><u>Brakes</u></b>
5.1	Brakes systems are free, no ABS systems allowed;
<b><u>NHR 6</u></b>	<b><u>Dimension and Weights</u></b>
6.1	Minimum weight of the car including competitor 800kg weighed pre, during or post event with no tolerance permitted;
6.2	Wheelbase of the vehicle must be within 50mm of the original manufacturers prescribed specifications;
6.3	Maximum length and width of the vehicle shall include the wing and aerofoil;
6.4	Maximum length of the vehicle is 5000mm;
6.5	Maximum width of the vehicle is 2000mm;
<b><u>NHR 7</u></b>	<b><u>Engine</u></b>
7.1	<b><u>Construction:</u></b>
7.1.1	Engine must be fitted within 50 mm of the centerline of the engine bay;

7.1.2	The rear bell housing face of the engine may not be placed further back than 600mm from a point reflected by the front stub axles.
	<b><u>Size and Choice</u></b>
7.2	<b><u>8 VALVE UNITS</u></b>
7.2.1	Limited to a maximum of 2700cc
7.2.1.1	Carburetion is free
7.2.1.2	Fuel Injection is free, no slide throttle bodies allowed
7.2.1.3	Engine management systems allowed
7.2.1.4	
	<b><u>8 VALVE/16 VALVE UNITS WITH TURBOCHARGERS</u></b>
7.3	Limited to 2100cc;
7.3.1	Carburetion is free;
7.3.2	Fuel Injection is free, no flat slide throttle bodies allowed;
7.3.3	Engine managements allowed;
7.3.4	
	<b><u>MULTI VALVE UNITS</u></b>
7.4	Limited to 2700cc
7.4.1	Carburetion is free;
7.4.2	Fuel Injection is free, no flat slide throttle bodies allowed;
7.4.3	Engine managements allowed;
7.4.4	
	<b><u>ROTARY</u></b>
7.5	Limited to twin rotor engines only;
7.5.1	Carburetion is free;
7.5.2	Fuel Injection is free, no flat slide throttle bodies allowed;
7.5.3	Engine managements allowed;
7.5.4	All rotors shall be of ferrous metal, no aluminum/titanium allowed;
7.5.5	No roller bearings eccentric shafts allowed
7.5.6	
<b>NHR 8.</b>	<b><u>Exhaust</u></b>
8.1	Refer T & C;
8.2	Rotary engines - Exhausts free – Effective silencers compulsory
8.3	Megaphones are <b>not</b> permitted
<b>NHR 9.</b>	<b><u>Fuel</u></b>
9.1	<b><u>Rotary Engines</u></b>
9.1.1	Avgas, <b>Ethanol (50/50 pump fuel/ethanol blend only)</b> , Racing Fuel and Pump Fuel is permitted with no performance enhancing additives. 2 Stroke oil may be used and this must be reflected in the competitors sign on sheet by listing the additive and mix ratio
9.2	<b><u>Piston engines:-</u></b>
9.2.1	Methanol, <b>Ethanol(50/50 pump fuel/ethanol blend only)</b> , Avgas, Racing Fuel and Pump Fuel is permitted with no performance enhancing additives. Lubricating additives may be added to Methanol and must be

9.3	<p>reflected in the competitors sign on sheet by listing the additive and mix ratio.</p> <p>The Competitor is responsible for recording these mixes and ratios accurately.</p>
<p><b>NHR 10.</b></p> <p>10.1</p> <p>10.2</p> <p>10.3</p> <p>10.4</p> <p>10.5</p> <p>10.6</p> <p>10.7</p> <p>10.8</p>	<p><b><u>Steering and Suspension</u></b></p> <p><b>CR A – 13 must be applied`</b></p> <p>Power steering Permitted;</p> <p>Suspension may be offset design;</p> <p>Rose joints are free and must not be less than 12mm type;</p> <p>Suspension designs are free;</p> <p>Shock absorbers that are adjustable from within the cockpit are not permitted;</p> <p>Only differentials from road going donor vehicles are permitted.</p> <p>Limited Slip Diffs are permitted</p>
<p><b>NHR 11.</b></p> <p>11.1</p> <p>11.2</p> <p>11.3</p> <p>11.4</p>	<p><b><u>Transmission</u></b></p> <p><b>CRA-11 must be applied</b></p> <p>Steel flywheel may be used;</p> <p>Limited slip diffs are allowed;</p> <p>No electric attachments to the front or rear axles are permitted, no data logging or telemetry systems allowed;</p>
<p><b>NHR 12.</b></p> <p>12.1</p> <p>12.2</p> <p>12.3</p> <p>12.4</p> <p>12.5</p> <p>12.6</p> <p>12.7</p> <p>12.8</p> <p>12.9</p>	<p><b><u>Wheels and Tyres</u></b></p> <p>Tyres restricted to the Hoosier H10SA Tyre available from Oscar Sutton at Hoosier South Africa only;</p> <p>Each Competitor is limited to 4 tyres for the first event of a Calendar year and thereafter only 1 tyre per event for each event thereafter excluding the National Championship and Speedweekend</p> <p>An Additional 4 new tyres can be used at a National event and Speedweekend. Tyres to be recorded in licence book and can be used as allocated tyres thereafter. 2 Spare wheels to be made up using tyres as reflected in licence book from previous Club Events.</p> <p>This limitation on tyres is restricted to usage in the Heats and Final at each event and not for practice runs;</p> <p>The tyre serial numbers are to be reflected in the Competitors Scrutineering Book;</p> <p>This is the responsibility of the Competitors to ensure that the serial numbers are recorded;</p> <p>Any competitor failing to present his scrutineering book as proof of compliance will start the Heats from the back at that specific meeting;</p> <p>Any Driver found running tyres other than the specifically recorded tyre will be automatically excluded from the results of the race in which he was competing when the transgression occurred.</p> <p>In instances where Drivers have insufficient logged tyres, then replacement tyres measuring no more than 3mm may be used after</p>

12.10	consultation with the Scrutineer and Clerk of the Course who must reflect as much in the scrutineering book. <b>Blow off valves are prohibited</b>
<b>NHR 13.</b>	<b><u>Wings</u></b>
13.1	Wind end plates may not exceed 500mm x 500mm and may be offset;
13.2	Wings to be 50 mm narrower than the width of the vehicle;
13.3	The number of vanes are free, but they must all be within the dimensions of the endplates;
13.4	Height of wing from the highest point of the roof is a max of 300 mm.