



WORLD OF MOTORSPORT ZA

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NATIONAL MOTOR SPORT FEDERATION
 WITH INTERNATIONAL FEDERATION AFFILIATION

2021

NATIONAL HOTROD NHR (TAR) 2021*

Introduction:	
Competitor age restriction: Competitors may enter this class for the first time in the year in which they turn 16.	
<u>NHR 1</u>	<u>Eligibility of vehicle and bodies</u>
1.1	Restricted to space Framed Vehicles with composite bodies only
1.2	Only rear wheel drive vehicles are permitted
1.3	Data Logging and Telemetry systems permitted with specific exclusion of traction control systems
<u>NHR 2</u>	<u>General Safety</u>
2.1	All other items not noted under the class regulations, shall be adhered to under, race regulations and technical & construction regulations
<u>NHR 3</u>	<u>Brakes</u>
3.1	Brakes systems are free except for ABS systems which are not permitted.
<u>NHR 4</u>	<u>Dimension and Weights</u>
4.1	Minimum weight of the car including competitor 800kg
4.2	Maximum length and width of the vehicle shall include the wing and front splitter
4.3	Maximum length of the vehicle is 5000mm
4.4	Maximum width of the vehicle is 2000mm;
<u>NHR 5</u>	<u>Engine</u>
5.1	<u>Construction:</u>
5.1.1	Engine must be fitted within 50 mm of the centerline of the engine bay
5.1.2	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.
5.2	<u>Engines modifications and systems including EFI are free with following specific Restrictions</u>
5.2.1	<u>8 VALVE UNITS</u>
5.2.1.1	Limited to a maximum of 2700cc
5.2.1.2	Slide throttle bodies are not permitted
5.2.2	<u>8 VALVE/16 VALVE UNITS WITH TURBOCHARGERS</u>
5.2.1.1	Limited to 2100cc
5.2.1.2	Slide throttle bodies are not permitted
5.2.3	<u>MULTI VALVE UNITS</u>
5.2.3.1	Limited to 2700cc
5.2.3.2	Slide throttle bodies are not permitted
5.2.4	<u>ROTARY</u>

5.2.4.1	Limited to twin rotor Mazda 13B engines only
5.2.4.2	Slide throttle bodies are not permitted
5.2.4.3	All rotors shall be of ferrous metal, no aluminum/titanium permitted
5.2.4.4	No roller bearing eccentric shafts permitted
NHR 6.	<u>Exhaust</u>
6.1	Exhausts systems free – Effective silencers compulsory (additional requirements as per specific venue requirements and engine types may be introduced)
NHR 7.	<u>Fuel</u>
7.1	<u>Rotary Engines</u>
7.1.1	Avgas, Ethanol (50/50 pump fuel/ethanol blend only), Racing Fuel and Pump Fuel is permitted with no performance enhancing additives.
7.1.2	2 Stroke oil may be used, and this must be reflected in the competitors sign on sheet by listing the additive and mix ratio
7.2	<u>Piston Engines</u>
7.2.1	Methanol, Ethanol (50/50 pump fuel/ethanol blend only), Avgas, Racing Fuel and Pump Fuel is permitted with no performance enhancing additives
7.2.2	Lubricating additives may be added to Methanol and must be reflected in the competitors sign on sheet by listing the additive and mix ratio
7.3	The Competitor is responsible for recording these mixes and ratios accurately
NHR 8.	<u>Steering and Suspension</u>
8.1	Power steering Permitted
8.2	Suspension is free
8.3	Shock absorbers are free however shock absorbers that are adjustable from within the cockpit are not permitted
8.4	Differentials are free with the following restrictions
8.4.1	No independent rear suspension permitted
8.4.2	Restricted to differential housings from road going donor vehicles are permitted
NHR 9.	<u>Transmission</u>
9.1	Transmissions free
9.2	Flywheels free
9.3	Pressure Plates and Clutches free
NHR 10.	<u>Wheels and Tyres</u>
10.1	Tyres restricted to the Hoosier H10SA Tyre available from Oscar Sutton at Hoosier South Africa only
10.2	Tyre Limitations – subject to specific Championship Regulations in which the Competitor is competing
10.3	Competitors may not use more than 6 tyres per event.
10.4	Blow off valves are prohibited.
NHR 11.	<u>Wings</u>
11.1	Wings are optional
11.2	Wing designs, positioning and sizes are free with the following restrictions
11.2.1	Wing may not protrude beyond the side of the vehicle.
11.2.	Wing end plates may not exceed 500mm x 500mm and may be offset

