



NATIONAL MOTORSPORT FEDERATION WITH INTERNATIONAL FEDERATION AFFILIATION

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NATIONAL HOTROD NHR (TAR) 2025

<u>Introduction:</u> Competitor age restriction: Competitors may enter this class for the first time in the year in which they turn 16.	
<u>NHR 1</u> 1.1 1.2 1.3	<u>Eligibility of vehicle and bodies</u> Restricted to space Framed Vehicles with composite bodies only Only rear wheel drive vehicles are permitted Data Logging and Telemetry systems permitted with specific exclusion of traction control systems
<u>NHR 2</u> 2.1	<u>General Safety</u> All other items not noted under the class regulations, shall be adhered to under, race regulations and technical & construction regulations
<u>NHR 3</u> 3.1 3.1.1 3.1.2	<u>Brakes</u> Brakes systems are free with the following exceptions ABS systems are not permitted. Carbon brake components are not permitted
<u>NHR 4</u> 4.1 4.2 4.3	<u>Dimension and Weights</u> Minimum weight of the car including competitor 800kg Maximum width of the vehicle is 2000mm; Right hand side weight excluding driver under consideration for 2026
<u>NHR 5</u> 5.1 5.1.1 5.1.2 5.2 5.2.1 5.2.1.1 5.2.1.2 5.2.2 5.2.2.1 5.2.2.2 5.2.3 5.2.3.1 5.2.3.2	<u>Engine</u> <u>Construction:</u> Engine must be fitted within 50 mm of the centerline of the engine bay 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. <u>Engines modifications and systems including EFI are free with following specific Restrictions</u> <u>8 VALVE UNITS</u> Limited to a maximum of 2700cc Slide throttle bodies are not permitted <u>8 VALVE/16 VALVE UNITS WITH TURBOCHARGERS</u> Limited to 2100cc Slide throttle bodies are not permitted <u>MULTI VALVE UNITS</u> Limited to 2700cc 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 centric shafts permitted
5.2.4.5	Billet type endplates are permitted.
5.3	<u>ENGINE MANAGEMENT SYSTEMS</u>
5.3.1	Aftermarket Engine Management systems are free with the following restrictions.
5.3.1.1	In car programming is not permitted (all switched and buttons to be removed)
5.3.1.2	Switch over maps are not permitted
5.3.1.3	Speed sensors on the wheels, Gearbox and GPS (where connected to Management) are not permitted
5.3.1.4	Where systems form part of the dashboard the system must be placed in such a position that the Competitor is unable to make in car adjustments
5.3.1.5	Traction and torque control is not permitted
5.3.1.6	Fly by wire throttle systems are not permitted
5.3	<u>BELLY PLATES</u>
5.3.1	A steel or aluminum 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.
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)
6.2	Silencers that are devoid of sufficient muffling packaging must be indicated in the respective Competitors scrutineer sheet and must re-packed with suitable materials before the next event.
NHR 7.	<u>Fuel</u>
7.1	<u>Rotary Engines</u>
7.1.1	Only 95 Octane Pump Fuel is permitted with no performance enhancing additives.
7.1.2	The Filling Station with the closest proximity to the Race Venue is the Official Supplier of control fuels for the specific event.
7.1.3	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	Only methanol is permitted with no performance enhancing additives. (M5 Methanol is specifically excluded).
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. These specific products are restricted to Silkolene Castorene R40S, Liquid Power Methanol Lubrication, Top Lube Alcohol Fuels Lubrication and Castor Oil
7.3	The Competitor is responsible for recording these mixes and ratios accurately
7.4	Any Competitor who is unable to provide a sealed Bottle of 2 Stroke Oil or Methanol Lubrication when required will accept the product provided.
7.5	Fuel Testing is in place. Process allows for a maximum discrepancy of 2 octane from the base test i.e Testing average from a minimum of 5 Competitors after removing the highest and lowest reading before factoring the calculation. Transgression is exclusion from event.

NHR 8.	<u>Steering and Suspension</u>
8.1	Power steering Permitted
8.2	Steering racks are free
8.3	Suspension is free
8.4	Shock absorbers are free however shock absorbers that are adjustable from within the cockpit are not permitted
8.4.1	Differentials are free with the following restrictions
8.4.2	No independent rear suspension permitted
8.4.3	Restricted to differential housings from road going donor vehicles only.
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 Dunlop 240/575/13 H compound tyre, available from ATS Motorsport through Oscar only. Specific Championship Regulations will reflect usage of such. WOMZA reserves the right to alter such regulations at short notice.
10.2	Tyre Limitations – subject to specific Championship Regulations in which the Competitor is competing.
10.3	Blow off valves are prohibited.
10.4	Hoosier tyres to be phased out by 30 April 2025.
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.
11.2.2	Wing end plates may not exceed 500mm x 500mm and may be offset
11.2.3	Vehicles restricted to one wing only
11.2.4	Two tier wings are permitted provided they are contained within the prescribed wing endplates
11.2.5	Highest part of the wing may not protrude more then 300mm above the highest part of the original roof when the vehicle is on level ground (wing endplates excluded)
11.2.6	Wing may not protrude more then 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.