



WORLD OF MOTORSPORT ZA

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2018- 2019 WOMZA HEAVY METALS DIRT

INTRODUCTION:

Competitor age restriction:

- **Minimum age 13 years old for club level entries only;**
- **Competitor's minimum age - 14 years old are permitted to enter into this class at regional and national level with the approval of their promoter and local TC Representative.**
- **Reference to length and widths in the regulations shall be defined as, length, measure in the direction of, from the front of the vehicle to the back and width being measured from left to right of the vehicle;**

Anything not specifically mentioned or what is not written, is not permissible

SAFETY:

- Limited contact racing as described;
- Limited contact shall mean nothing more than the coming together of vehicles caused by close racing, minimal shunting and nudging shall be permitted due to close racing;
- Upon contact being made unintentionally or accidentally, the following vehicle shall leave enough space for the leading vehicle to regain its position on the track;
- In limited contact, the intention is to permit minimal contact, but the contact shall not be forceful enough to cause the lead vehicle to be placed in a different race line involuntarily;
- Ensure that all joints in construction are welded properly – minimum 75%;
- Sump, gearbox and differential plugs are to be wired securely;
- The installation of Fire extinguishers shall remain optional; however, it is highly recommended to have fire extinguishers fitted in the competitor compartment. All installations must be well secured thus prevent the extinguisher from dislodging upon an impact;
- No "in car" adjustments permitted, except for brake balancing;

SAFETY / TECHNICAL & CONSTRUCTION REGULATIONS

HEAVY METAL - CLASS TECHNICAL REGULATIONS

DESCRIPTION	
GHTC1	<u>ELIGIBILITY OF VEHICLE AND BODIES:</u>
1.1	Any car- or LDV (bakkie) body will be permitted;
1.2	Any six- or eight cylinder car body, commercially sold, will be permitted;
1.3	Only original road going vehicles will be allowed. This means no space frame or semi-space frame vehicles;
1.4	Body and engine can be from different manufacturers;
1.5	Only front fenders, doors, bootlids and bonnets may be replaced with fiberglass panels;
1.6	Body panels may be cut away to lighten the car’;
1.7	The firewall may be cut to accommodate the engine back;
1.8	Engine crank pulley may not be further back than a 100mm from the radiator, radiator must be fitted in an original position.

GHTC2.	<u>FIRE WALLS/PROTECTOR WALLS</u>
2.1	All vehicles must have metal firewalls between the driver's compartment and engine, between driver's compartment and fuel cell or fuel tank;
2.2	All firewalls are to be constructed of metal only;
2.3	Plastic, fiberglass and rubber fire walls is not permitted
2.4	Fire walls will not have any holes, other than where pipes and lead protrude fire wall with precise fitment

GHTC3.	<u>VEHICLE CONSTRUCTION</u>
3.1	Front- or rear wheel drive cars are permitted;
3.2	Front wheel drive cars cannot be converted to rear wheel drive & vice versa;
3.3	Four-wheel drive vehicles is not permitted

GHTC4.	<u>DIMENSIONS AND WEIGHTS</u>
4.1	All four wheels of the vehicle to fit within the body of the vehicle.
4.2	The minimum weight shall be 950kg for six cylinder cars; excludes weight of fire extinguishers and fuel
4.3	No weight tolerances

GHTC5.	<u>BRAKES</u>
5.1	<u>Brakes General:</u>
5.1.1	Brakes are mandatory on all four wheels;
5.1.2	Brake lights are mandatory and operational always;
5.1.3	Brake lights must be red and be mounted in plain sight for competitors to observe without restriction;
5.1.4	Brake lights may not be fitted in the tailgate of the bodywork of the vehicle, additionally all glass or plastic indicators and lights shall be removed from the body of the vehicle;
5.1.5	Brake lights to work off brake pedal operated switch
5.1.6	No ON/OFF switches permitted on brake light system
5.2	<u>Brake light specifications: -</u>
5.2.1	Red LED - minimum 200mm length;
5.2.2	Minimum of 75% of the LED’s must be operational;
5.2.3	Red light – round, minimum of 50mm in diameter and a maximum of 100mm
5.2.4	Rectangular or square brake lights shall be a minimum of 50mm square with a maximum of 100mm

5.2.5	Brake light appearance shall always remain bright, any dull brake light appearance may be rejected by the scrutineer;
5.3	<u>Brake Mechanism: -</u>
5.3.1	Only standard components as originally fitted to the car may be used;
5.3.2	Only original calipers to be used as per manufacturers' specification;
5.3.3	Brake pads or lining material is free, in other words friction material is free;
5.3.4	ABS or any other electronic driving aids is not permitted;
5.3.5	Brake balancing not permitted
5.3.6	All Handbrakes to be removed

GHTC6	<u>BUMPERS</u>
6.1.1	No external steel bumpers, refer to internal bumper regulation;
6.1.2	All piping utilized for the purpose of bumpers shall remain in a single tubular form, it follows, that under no circumstances may any of these pipes be filled in any manner or have additional smaller tubing inserted to the inside of the larger pipe;
6.2	<u>Internal bumpers</u>
6.2.1	Internal bumpers – piping material used shall have a maximum outside diameter of 38mm and a maximum wall thickness of 2mm;
6.2.2	The internal bumper shall be shaped in accordance with the vehicle's front silhouette;
6.2.3	Additional radiator protection may be installed internally with no more than 4 mounting points;
6.2.4	Vehicles that are manufactured with steel bumpers must be replaced with plastic or fibre glass bumpers, fitted with a single 38mm x 2mm pipe inside shaped according to the bumper;
6.2.5	Only plastic or fibre glass bumpers not exceeding 3mm thick may be fitted externally for cosmetic purposes only, no steel stiffeners;
6.2.6	No piping to protrude outside of bodywork;

GHTC7	<u>STEERING AND SUSPENSION</u>			
7.1	Shocks can be interchanged as long as it is a shock that was originally fitted to a commercially sold vehicle. The original mounting points on shock, body and suspension to stay the same;			
7.2	Only vehicle specific suspension components may be used (e.g. BMW 535 suspension parts cannot be fitted to a BMW 740 or a Ford Sierra);			
	The lowering of the car will be permitted. Ride-height adjustment is free;			
7.3	Coils springs is free			
7.5	Ride height adjustment free;			
7.7	Clip-on steering wheel (no homemade clip-on device)			

GHTC8	<u>EXHAUSTS:</u>
8.1.1	Exhausts and silencer boxes mandatory and must comply to prescribed noise levels; Maximum decibels 108, measured 1metre away at 5000rpm;
8.1.2	Branches is permitted
8.2	<u>Exhaust Fitment</u>
8.2.1	Exhaust outlet must face downwards underneath the vehicle;
8.2.2	All piping shall be secured with saddles, preventing exhaust pipes from coming free in the event of it breaking off;
8.2.3	Exhausts fitted below the floor pan shall have saddles fitted at +- 33% and 66% of the exhaust length to retain the exhaust in the event of exhaust breaking.
8.2.4	Saddles are to be bolt on type;

8.2.5	Exhaust systems installed above the floor pan with tailpipes passing out through the side of the vehicle, shall do so at a maximum height of 450mm measured from the ground to the top of the pipe with the vehicle parked on a level floor, with driver seated and tyres measured at racing pressures;
8.2.6	Exhaust systems installed above the floor pan may not protrude more than 50mm beyond the body silhouette;

GHTC9	<u>FLYWHEELS</u>
9.1	Flywheel to keep to standard specification, no lightening of flywheel

GHTC10	<u>FUEL</u>
10.1	Racing and pump fuel permitted
10.2	Performance enhancing additives;

GHTC11	<u>FUEL MANAGEMENT AND CARBURETION:</u>
11.1	Original carburation (i.e. factory fitted) is allowed
11.2	This carburation can only be replaced with <u>one</u> down-draft carburetor;
11.3	Fuel injection is allowed;
11.4	The original intake and throttle bodies must be retained;
11.5	Aftermarket Fuel and ignition management system is permitted.
11.6	Jets sizes Open
11.7	Side draughts not permitted
11.8	Head gas flowed on only the 12valve carburetor engine is permitted
11.9	Cams is open on the 12 valve carburetor and fuel injection engines
11.10	Only standard cams can be used on the multi valve unit
11.11	Electrical low pressure fuel pump permitted.
11.12	Two parallel springs on carburetor

GHTC12	<u>ENGINE</u>
12.1	General
12.2	Only six cylinder piston driven engines will be permitted;
12.3	Engine power restricted to 160 KW on wheels
12.4	No engines with forced induction will be permitted e.g. turbo- or supercharged;
12.5	Only standard, factory fitted rockers and lifters may be used;
12.6	Standard bore plus 60 thou oversize permitted
12.7	Engine compression may be increased - skimming of head and block allowed;
12.8	The stroke may not be changed;
12.9	Only pistons manufactured with the engine are allowed;
12.10	Air Cleaners and air boxes are open
12.11	Removal of alternators or charging system is permitted
12.12	Consumable items such as filter elements and spark plugs are open
12.13	Spot machining of the crankshaft and flywheel are permitted for balancing purposes only;
12.14	Weight of engine components must be kept to standard specifications; no lightening will be permitted;
12.15	No motorcycle engines permitted;

GHTC13	<u>TRANSMISSION</u>
13.1	Only commercially sold transmissions will be permitted
13.2	Ratio of final drives is open
13.3	The differential may be locked by means of welding the gears together e.g. locked diffs;
13.4	No limited slip diffs will be permitted;

13.5	Standard clutches only;
13.6	Pressure plate must remain standard;

GHTC14	<u>WHEELS AND TYRES</u>
14.1	Double wheels not permitted
14.2	Normal, road legal tyres, new, second hand or re-tread are permitted;
14.3	Tyres will be a maximum of 15 inch (8J) with a maximum width of 205 as indicated on the tyre wall;
14.4	Only freely available road tyres from any general tyre dealer is allowed;
14.5	Rally tyres is permitted
14.6	Tyre walling bearing the following inscription is not permitted, “for racing purposes only/ not road legal / not for highway use”;
14.7	All tyres have to be presented at scrutineering;

GHTC15	<u>WINGS:</u>
15.1	Wings are not permitted;
GHTC15	<u>WINGS:</u>
15.1	Wings are permitted;
15.2	Wings are not allowed to be wider than the width of the vehicle;
15.3	Wing upright plate length – 500mm maximum;
15.4	Wing upright plate height – 500mm maximum;
15.5	Maximum of four vertical plates allowed;
15.6	Wing to be mounted from “B” pillar backwards;
15.7	Height of wing from the highest point of the roof to the highest part of the vane, is a maximum of 300mm;
15.8	Only one vane allowed;
15.9	Wings not to be further back than the back of the vehicle;

TECHNICAL CONSTRUCTION REGULATIONS

TCH1.	<u>PROTECTIVE CLOTHING</u>
1.1	Full fire-retardant race overalls are compulsory.
1.2	Minimum requirement is a Level 1, single layer race suit;
1.3	The composition of the suit even if small percentages are used may not be of a polyester, nylon or synthetic material;
1.4	Mechanic overalls will not be permitted;
1.5	Two-piece race suites not permissible;
1.6	No pushing up of sleeves permissible whilst racing;
1.7	Fire retardant gloves are compulsory;
1.8	Open fingertip gloves are not permitted;
1.9	It is mandatory for Competitors racing with methanol to wear balaclavas;
1.10	Neck braces/donut type shall be mandatory for all competitors;
1.11	All helmets will be in a good condition; it will be highly recommended that full face helmets are used for Oval Track Racing;
1.12	The only helmet that will be approved must bear the SABS or of a higher standard and a type that is suitable for highway usage;
1.13	The Scrutineer may condemn a helmet or confiscate a helmet until after a race meeting, if, the visor is cracked, the helmet has a visible crack and if the helmet straps are in any way sub-standard;
1.14	<u>Recommended washing instructions of race suites:</u>

1.14.1	No Bleaches, No fabric softeners, no machine washing, no tumble drying, no ironing – hand wash only and drip dried – this method preserves the agents within the fabric.
TCH2.	<u>SAFETY REGULATIONS</u>
2.1	Applicable to all classes and vehicles
2.2	All sump, gearbox and differential drain and filler plugs have to be drilled and wired;
2.3	Oil filters have to be clamped or strapped;
2.4	A radiator water catch tank of a minimum capacity of 1 liters shall be fitted to the cooling system;
2.5	A sealed radiator system will be exempted from the above regulation, for example Golf systems;
2.6	All joints and seams in the construction of the vehicle shall be properly mitered and be welded;
2.7	Methanol – it shall be mandatory that all methanol storage containers (Jerry can) be marked by a spray of paint or sticker, the letter M or in full Methanol, the colour to be used shall be red or orange;
2.8	All flammable items such as plastic dashboards, plastics, carpets, upholstery and hood lining must be removed;
2.9	All bitumen cladding on the interior of the vehicle must be removed;
2.10	All piping (brakes and fuel) and wiring must be installed above the floor board or chassis;
TCH3.	<u>BATTERIES</u>
3.1	It shall be mandatory for batteries to be bolted down;
3.2	Battery shall be bolted down by way of a cross bar or cross bracket;
3.3	Cross bar to be made of a flat bar with a minimum 5mm thickness; or
3.4	Square bar of 8mm x 8mm or round bar of a minimum 8mm in diameter;
3.5	The hold down bolts shall be a minimum of 8mm in diameter;
3.6	No side clamps or straps will be permitted to hold down the battery;
3.7	Batteries shall be covered by a nonconductive material to prevent short circuiting in the case of an accident;
3.8	Batteries fitted in the competitor's compartment shall be mounted in a leak proof compartment, e.g., boat battery box;
3.9	The use of battery box compartment shall still require the battery to be bolted down inside the box, in all instances the cover of the battery box must be secured, by way strapping;
3.10	Batteries may be kept in their original positions and be affixed correctly; In all instances batteries should be easily accessible for scrutineers to inspect;
TCH4.	<u>COMPETITION NUMBERS ON VEHICLES DISPLAYS</u>
4.1	Mandatory number placing on Wing Plates: -
4.2	Wing Plates – White Back, black number or Black back with mandatory white or Day Glo colour only -
4.3	Minimum size, 300mm height with a 50mm font stroke;
4.4	A clear block of 400mmx400mm must be kept on the wing side plates for the display of the competition number. No other advertisement allowed in the clear block.
4.5	Competition number to be displayed on the horizontal vane of the wing showing towards the outer side of track;
4.6	Competition numbers to be a minimum size of 300mm in height with a readable 50mm Font stroke;
TCH5.	<u>GENERAL GRAPHICS AND/OR SIGN WRITING ON VEHICLES: -</u>
5.1	Only vinyl lettering or professional sign writing applications will be permitted;
5.2	Club Prefixes are mandatory to be displayed together with the number;
5.3	Advertisements/sponsors must not scramble the number of the vehicle;
5.4	Advertisements and slogans may not be of discriminatory manner;
5.5	Numbers 1, 2 and 3 will be reserved for WOMZA Final Championships only;
5.6	No longer may clubs use 1,2 or 3 for Club Champions or zero numbers;
5.7	No lights (LED) are permitted on the outside on the frame including wings.
5.8	No lights (LED) are permitted inside cockpit.

5.9	Lights (LED) are permitted on wheels and underneath of car.
TCH6.	<u>ENGINE POSITIONS:</u>
6.1	<u>FUEL TANKS AND FUEL PIPES:</u>
6.2	It is highly recommended that properly designed and manufactured racing fuel tanks are used or bag type fuel cells which reduces the risk of fuel spillage from accident damage;
6.3	The wall thickness of metal fuel tanks shall be no less than 1mm;
6.4	A fuel tank breather, which shall vent externally, must be fitted to all fuel tanks.
6.5	A non-return valve shall be fitted to the breather.;
6.6	The non-return valve may not be airtight;
6.7	The fuel tank cap shall be the non-vented type;
6.8	Fuel tanks must be mounted in a separate compartment behind the competitor;
6.9	Fuel tanks must be securely mounted to the chassis of the vehicle with bolts or metal straps;
6.10	No fuel tank to be fitted above the battery and the battery to be covered with rubber on the top
6.11	A fire wall must be constructed to separate the competitor from the fuel tank and fuel pumps as well as the filler and breather system;
6.12	The fuel lines must run above the floor;
6.13	The section of the fuel line running inside the vehicle past the competitor compartment must be of a steel material and may not have joints
TCH7.	<u>KILL SWITCH</u>
7.1	All vehicles shall have kill switches made of non-flammable material fitted;
7.2	Kill switches to be marked red;
7.3	The fitment of the kill switch fitted shall be within the competitors reach and his sight when strapped in;
7.4	External switch shall be situated outside of the vehicle for Officials to easily reach;
7.5	If the internal kill switch cannot be reach by an official easily, it shall be mandatory for an additional external kill switch to be fitted;
7.6	The effect of the Kill switches is to isolate the battery power from the rest of the vehicle and to shut the engine off with immediate effect, resulting in the break of the ignition and electric fuel pump circuits, simply said to cut all power and fuel supply simultaneously;
TCH8.	<u>OIL SAFETY CONTROL</u>
8.1	Oil filters are either to be clamped or strapped;
8.2	Sump, gearbox, axle's drain and filler plugs are to be drilled and wired;
8.3	An oil catch tank, with a minimum capacity of 1 litres, capable of accepting surplus oil and fumes from the engine shall be fitted in the engine compartment ;
8.4	The catch tank shall be connected to each breather outlet by means of a flexible pipe or similar conveyance, designed to feed the oil or fumes to the tank;
8.5	The catch tank is to be emptied between races;
TCH9.	<u>PROP SHAFT/DRIVE SHAFT/RUNNING GEAR PROTECTION</u>
9.1	<u>General Prop shaft protection hoops:</u>
9.1.1	Drivers must be protected from open running prop shafts by two steel bands, with a minimum width of 50 mm;
9.1.2	These bands shall at least be 5mm thick and be bolted or welded to the chassis;
9.1.3	These bands are to prevent a broken shaft from lifting and coming into the cockpit area;
9.1.4	The one band shall be a maximum of 150 mm behind the front yoke measured from the front of the prop shaft;
9.2	<u>Prop shafts running below chassis:</u>
9.2.1	Vehicles shall have a collar/hoop that would prevent the front end of the running gear (prop shaft or torque tube) to lodge into the track should it break while the vehicle is in motion;
9.2.2	The hoop should be approximately 25% along the distance of the shaft as measured from the front of the prop shaft;

TCH10.	<u>RADIATOR SAFETY CONTROL</u>
10.1	Radiators applicable to all classes – a water catch tank with a minimum capacity of 1litres shall be fitted to the cooling system, exempted will be sealed water systems;
10.2	Under no circumstances may a water catch container be replaced with a pipe allowing steam or water (overheating) being directed outwards;
10.3	All joints that are not flared shall be double clamped, flared pipes may have one clamp only;
10.4	All piping to and from the radiator, other than the joints and the overflow pipes shall be of steel or aluminum or cooper;
10.5	The pipes must be mounted securely between the firewall and the radiator and at a height not higher the sissy bar;
10.6	All joints are to be enclosed by a rubber sock and all hoses are to be double clamped;
10.7	Radiator shield protectors are mandatory with the following regulations applicable;
10.8	A fitment of a shield in lexan or Perspex shall be fitted to protect the competitor from a burst water pipe;
10.9	The shield could be made up in two designs namely:
10.10	A straight up shield covering and protecting the competitor in full whilst seated, this to be the full range of the radiator and competitor;
10.11	An upright shield with a hood covering the top of the radiator to form an airflow tunnel so not to restrict air intake, being the full width of the radiator, protecting the competitor whilst seated;
TCH11.	<u>Safety Nets / Protector Plate – open wheel</u>
11.1	The use of safety Nets are optional
11.2	Fitment of safety net requirements:
11.3	It shall cover the full window area from the rear of the driver’s seat to the front of the seat;
11.4	The net shall be mounted to the roll cage above the driver’s head, with quick release clasps, which shall be fixed to the sissy bar, it follows that the net shall be released from the sissy bar;
11.5	<u>Protector Plates for open wheeled vehicles:</u>
11.5.1	It shall be mandatory for all open wheeled vehicles to have a protector plate to the right hand side enclosing the cockpit up to the height of the competitor’s shoulder when seated and not to obscure the competitors vision;
TCH12.	<u>SEATS - Race Seats</u>
12.1	Race seat minimum specifications for oval track racing: Race seat shall have holes where seat belts can be let through, one on each side of the seat for lap belts and two on the back rest at shoulder height for the belts to exit to its mounting points;
12.2	It is highly recommended to fit a FIA approved seat;
12.3	Only bucket race seats permitted, no adjustable back rest reclining road car or race styled seats will be permitted;
12.4	No fibre glass seats may be used;
12.5	Seats are to be mounted with a support bar across the back.
12.6	Aluminum seats permitted;
12.7	Aluminum seat wall thickness – minimum of 2.5mm;
12.8	Steel seats permitted;
12.8.1	Steel seats wall thickness, minimum of 2.00mm;
12.9	Steel framed seats permitted;
12.10	Vehicles that have cracked/torn and broken seats shall automatically be excluded from the event, without any further negotiations;
TCH13.	<u>SEAT BELTS</u>
13.1	Quick release seat belt and shoulder harness are mandatory;
13.2	Seat belts must have a minimum of four points;
13.3	No hand stitching or homemade alterations permitted to belts;
13.4	Only SABS or International standard belts permitted;

13.5	Safety belts and driver seats must be secured to the roll cage or frame (not to the floor pan);
TCH14.	<u>FITMENT OF SEAT BELTS:</u>
14.1	The shoulder belt will exit through the backrest of the seat horizontally to the rear mounting point with a maximum of 10degrees upwards and maximum of 20degree downward from the exit point;
14.2	The lap belts will exit through the side hole fitment of the seat, and form a vertical line to the mounting points with a maximum of 30degrees rearward;
14.3	The crotch belt application – it shall exit though the seat downward vertical viewed from the side with a maximum of 20degree rearward towards the mounting points;
14.4	If the fitment of the shoulder belt cannot fit as above, the fitment of the shoulder belt may be taken down to the chassis, but must be supported with a crossbar behind the back rest of the seat at the same height of the seat belt exit holes for the crossbar to function as a support for the belt going down for the bar to take the downward pressure of the shoulder belt and not the seat back rest;
14.5	Existing vehicles that have seat belts and seats mounted to the floor pan must be supported by 50mm x 50mm washers or 75mm x 2mm in diameter tear plate;
14.6	See drawing for belt installation;
TCH15.	<u>WEIGHTS</u>
15.1	Vehicles which require to increase vehicle weights shall do so by fitting ballasts:
15.2	Ballasts, is a non-functional material added to increase vehicle weight.
15.3	Any ballast must be permanently fixed to the structure of the vehicle by means of bolting, wiring and strapping of ballasts is prohibited;
15.4	All ballast must be clearly marked by a contrasting colour to the interior of the vehicle;
15.5	Championship events – once vehicles have been weighed the Scrutineer shall have the right to wax seal ballasts;
15.6	Fitted fire-extinguishers shall be removed or its weight reading shall be taken into consideration and be excluded for weighing purpose;
15.7	No weight tolerances will be permitted;
15.8	A vehicle may be weighed at any time during the event and remains the responsibility of the competitor to ensure the vehicle in which he is competing complies to the class weight regulation;
TCH16.	<u>WELDING</u>
16.1	All joints and seams in the construction of the vehicle are to be properly mitered and shall be welded.
16.2	All visible welding shall be 100%.
TCH17.	<u>FENDER FLAIRS</u>
17.1	The use of fender flairs is permitted
17.2	Fender flairs constructed from fiber glass max 3mm in thickness, may not have any additional steel reinforcements.
17.3	Fender flairs constructed from sheet metal may not exceed 1.2mm in thickness, may not have any sharp edges and must be shaped to fit according to the fenders shape.

TCH18.	<u>WINDSCREENS AND GLASS WINDOWS</u> All windscreens and glass windows shall be removed if vehicle is being campaigned permanently on dirt; Only the rear side windows may be replaced with lexan or polycarbonate;