

NATIONAL MOTORSPORT FEDERATION WITH INTERNATIONAL FEDERATION AFFILIATION

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2023 WOMZA HEAVY METALS TAR

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;

SAFETY / TECHNICAL & CONSTRUCTION REGULATIONS

HEAVY METAL - CLASS TECHNICAL REGULATIONS

	DESCRIPTION		
GHTC1	ELIGIBILITY OF VEHICLE AND BODIES:		
1.1	Any car or LDV (bakkie) body will be permitted;		
1.2	Any five, 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 manufacturer brand to match		
1.5	Only front fenders, doors, boot lids and bonnets may be replaced with fiberglass panels;		
1.6	If needed, plate must be replaced with 1.2mm thick metal plate		
1.7	The firewall may be cut to accommodate the engine; Maximum surface area allowed to be removed or altered is 300mm x 300mm		
1.8	Engine crank pulley may not be further back than a 200mm from standard radiator cradle centerline. The		
	radiator can be fitted in original position or at the rear as per TSH11.		
1.9	The spare wheel section between the chassis legs of the floor board may be removed. The rest of the floor,		
	the sills and the posts must stay intact. Rear seat firewall panel may be removed		
1.10	The original radiator cradle may be replaced by 38 x 2mm pipe. The chassis legs and the shock mono's must stay intact.		

GHTC2	FIRE WALLS/PROTECTOR WALLS
2.1	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	VEHICLE CONSTRUCTION
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
3.4	Only right hand drive vehicles allowed
3.5	Total vehicle weight 1050 kg including driver; including fuel and fire extinguisher.

GHTC4 DIMENSIONS AND WEIGHTS

4.1	All four wheels of the vehicle to fit within the body of the vehicle.
4.2	The minimum weight shall be 1050 kg for all vehicles.
4.3	No weight tolerances

GHTC5	BRAKES
5.1	Brakes General:
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 or Inline switch.
5.1.6	No ON/OFF switches permitted on brake light system
5.2	Brake light specifications: -
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	Brake Mechanism: -
5.3.1	Only original calipers to be used as per manufacturers' specification;
5.3.2	Brake pads or lining material is free, in other words friction material is free;
5.3.3	ABS or any other electronic driving aids is not permitted;
5.3.4	Brake Balancing twin adjustment front to back and left to right permitted;
5.3.5	The use of paddle boxes with two master cylinders permitted;
5.3.6	All Handbrakes to be removed.

GHTC6	BUMPERS
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; The single tubular pipe can have maximum of 4 mounting points.
6.2	Internal bumpers
6.2.1	Internal bumpers – piping material used shall have a maximum outside diameter of 38mm and a
	maximum wall thickness of 2mm with no more than 4 mounting points
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; may not
	form part of the bumper, must be the size of the radiator.
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 with no more than 4
	mounting points
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	STEERING AND SUSPENSION

7.1	Shocks can be interchanged as long as it is a shock that was originally fitted to a commercially sold vehicle.
7.1.1	The original mounting points on shock, body and suspension to stay the same; control arm designs are free,
	but must bolt onto the original mounting points on the chassis.
7.2	The use of Camber plates are not permitted.
7.3	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, Same series vehicles for example E36 vs E46 also not allowed to be
	interchanged);
7.4	The lowering of the car will be permitted. Ride-height adjustment is free; Arc, Blue line and JOM for road
	use coil over adjustable shocks are permited. These shocks are to remain standard as manufactured.
7.5	Coils springs is free
7.6	Ride height adjustment free;
7.7	Wheel base: The original manufacturer's specifications to be used with a tolerance of 50 mm per side.
7.8	Clip-on steering wheel (no homemade clip-on device)

GHTC8	EXHAUSTS:
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	Exhaust Fitment
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;
8.2.7	A suitable metal plate mounted away from the exhaust in order that it acts, as an effective heat shield
	shall cover the pipe inside the driver's compartment.
GHTC9	<u>FLYWHEELS</u>
9.1	Only OEM Flywheels allowed

GHTC10	<u>FUEL</u>
10.1	Only AVGAS and Pump fuel allowed for controlled fuel purpose
10.2	Performance enhancing additives are not allowed
10.3	Methanol and Ethanol is not permitted

GHTC11	FUEL MANAGEMENT AND CARBURETION:
11.1	Original carburation (i.e. factory fitted) is allowed
11.2	This carburation can only be replaced with one down-draft carburetor;
11.3	The use of twins carbs is allowed only on the V6 Ford [3 x 38 downdraft webers] and Nissan Skyline 2.8
	[3 x 40 side draft webers] engines
11.4	Fuel injection is allowed;
11.5	The intake manifold may not be altered; aftermarket throttle body may be used as long as it's the same size
	as the original throttle body of the same engine. [manufacture spec]
11.6	Different Intake manifolds from the same manufacturer may be used

11.7	Aftermarket Fuel and ignition management system is permitted. Management restricted to original
	units or South African produced aftermarket systems only. EFI restricted to Dicktator, Spitronics and
	Power Mods Units only
	Single map only. No map switching or launch control allowed
11.8	Jets sizes Open
11.9	Side draughts not permitted, only on 2.8 Skylines.
11.10	Head gas flowed on only the 12valve carburetor engine is permitted
11.11	Cams is open on the 12 valve carburetor and fuel injection engines
11.12	Only standard cams can be used on the multi valve unit
11.13	Electrical low pressure fuel pump permitted.
11.14	Two parallel springs on carburetor

GHTC12	<u>ENGINE</u>
12.1	General
12.1.1	Only five and six cylinder piston driven engines will be permitted; .
12.1.2	NO V8 engines allowed permitted;
12.2	Engine power restricted to 200 KW max on flywheel; Will be checked at full throttle, at throttle body, in 4 th
	gear with zero stagger on the drive wheels and tyres inflated to 2 bar With wheels used as raced. If stagger
	is used for racing, the smaller tyre size will be selected. Club nominated dyno will be utilized
12.3	No engines with forced induction will be permitted e.g. turbo- or supercharged;
12.4	Only standard, factory fitted rockers and lifters may be used;
12.5	Standard bore plus 60 thou oversize permitted;
12.6	Engine compression may be increased - skimming of head and block allowed;
12.7	The stroke may not be changed;
12.8	Only pistons manufactured with the engine are allowed;
12.9	Air Cleaners and air boxes are open;
12.10	Removal of alternators or charging system is permitted
12.11	Consumable items such as filter elements and spark plugs are open
12.12	Spot machining of the crankshaft and flywheel are permitted for balancing purposes only;
12.13	Weight of engine components must be kept to standard specifications; no lightening will be permitted;
12.14	No motorcycle engines permitted;
12.15	Any lubricant is permitted;
12.16	Engine Placement; no offset allowed measurements from the crank pulley.

GHTC13	TRANSMISSION
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	The use of button clutches allowed;
13.6	Aftermarket Pressure plates permitted;
13.7	No competitions clutches allowed.
GHTC14	WHEELS AND TYRES
14.1	Double wheels not permitted
14.2	Normal, road legal tyres, new or second hand permited
14.3	Tyres will be a maximum of 16 inch (8J) with a maximum width of 195 as indicated on the tyre wall;
14.4	Tyre brand restricted to Dunlop FM 800 only o
14.5	Rally tyres is not permitted;
14.6	Grooving of tyres are permitted;
14.7	Tyre walling bearing the following inscription is not permitted, "for racing purposes only/ not road legal /
	not for highway use";

14.8	All tyres have to be presented at scrutineering;
14.9	Bead Locks are NOT permitted. Rim Protectors are allowed

GHTC15	WINGS:
15.1	No wings permited
15.2	The use of a boot spoiler is permitted.
15.3	Boot spoilers restricted to OEM boot spoilers, for example, BMW E36 M3 boot spoilers will be allowed. This can be a fiberglass reproduction as long as it's the same shape and dimensions as the original. No Lexan or plate boot spoilers allowed.

TECHNICAL CONSTRUCTION REGULATIONS

TCH1	PROTECTIVE CLOTHING
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	Neck braces/donut type shall be mandatory for all competitors under the age of 18;
1.10	All helmets will be in a good condition; it will be highly recommended that full face helmets are used for Oval
1.11	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	Recommended washing instructions of race suites:
1.15	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	SAFETY REGULATIONS
2.1	All sump, gearbox and differential drain and filler plugs have to be drilled and wired;
2.2	Oil filters have to be clamped or strapped;
2.3	A radiator water catch tank of a minimum capacity of 1 liters shall be fitted to the cooling system;
2.4	A sealed radiator system will be exempted from the above regulation, for example Golf systems;
2.5	All joints and seams in the construction of the vehicle shall be properly mitered and be welded;
2.6	All flammable items such as plastic dashboards, plastics, carpets, upholstery and hood lining must be removed;
2.7	All bitumen cladding on the interior of the vehicle must be removed;
2.8	All lights and windows must be removed from the vehicle, only the rear side windows may be replaced with see through lexan;
2.9	Under no circumstances may a vehicle compete without a secured bonnet, the purpose of this is to prevent the
	bonnet dislodging and secondly preventing, burns of any nature towards a competitor;
2.10	Bonnets shall be constructed and fit in such a manner that no open gaps will display when closed;
2.11	All piping (brakes and fuel) and wiring must be installed above the floor board or chassis;
2.12	Vehicles shall be able to self start and self starters have to be in a working condition;
TCH3	BATTERIES
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
2.0	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;
2.10	
3.10	Batteries may be kept in their original positions and be affixed correctly;
TCUA	In all instances batteries should be easily accessible for scrutineers to inspect;
TCH4	COMPETITION NUMBERS ON VEHICLES DISPLAYS Optional graph of placing on Wing Plates.
4.1	Optional 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	No other stickers or advertising permitted on wing plate;
4.5	The number shall be displayed on the wing or the "C" Pillar or on the front door.
4.6	Competition number to be displayed on the Roof of the vehicle, showing towards the outer side of track;
4.7	Competition numbers to be a minimum size of 300mm in height with a readable 50mm Font stroke;
4.8	Competition prefix to be a minimum size of 120mm in height.
4.9	Competition numbers to be contrast to the colour of the vehicle;
4.10	Competition number and competitor's name to be displayed on the visor – visor height is generally 120mm in
	height;
4.11	General Graphics and/or Sign writing on vehicles: -
4.11.1	Only vinyl lettering or professional sign writing applications will be permitted;
4.11.2	Club Prefixes are mandatory to be displayed together with the number;
4.11.3	Advertisements/sponsors must not scramble the number of the vehicle;
4.11.4	Advertisements and slogans may not be of discriminatory manner;
4.11.5	Numbers 1, 2 and 3 will be reserved for WOMZA Final Championships only;
4.11.6	No longer may clubs use 1,2 or 3 for Club Champions or zero numbers;
4.11.7	Only, rear side windows (which are to be replaced with see through lexan or polycarbonate) may be sign written.
	no more than 50% of the window may be covered with sign writing;
4.11.8	No lights (LED) are permitted on the outside on the frame including wings.
4.11.9	No lights (LED) are permitted inside cockpit.
4.11.10	Lights (LED) are permitted on wheels and underneath of car.
TCH5	ENGINE POSITIONS:
5.1	As per GHTC 1.8
тсн6	FUEL TANKS AND FUEL PIPES:
6.1	Vehicle may not retain the original position of their fuel tanks, shall be removed from the original position;
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
6 12	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
0.13	material and may not have joints
	Indicate and may not have joints
TCH7	KILL SWITCH
7.1	Vehicle 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	MIRRORS
8.1	Only one mirror mounted inside of vehicle permitted;
8.2	Maximum size of mirrors 100mm x 200mm; One Exterior mirror permitted;
8.3	Exterior to be fitted within the width of car on the competitor driving side;
8.4	Maximum size of exterior mirror 150mm in diameter, width and/or height;
8.5	ANUDELANC
TCH9	MUDFLAPS Mud flaps Mandatory
9.1	Mud flaps to be fitted behind the rear wheels of rear wheel drive cars;
9.2 9.3	Mud flaps to be fitted behind the rear wheels and behind the front wheels of front wheel drive vehicles;
9.3	Mud flaps must be positioned directly behind the wheels and not more than 100mm from the back face of the
9.4	wheels;
9.5	Distance of mud flap from ground level with driver seated, measured from the bottom of the mud flap to
	ground level is maximum 100mm and minimum 50mm, with the competitor seated and wheels inflated to
0.6	racing pressures; Mud flaps to cover the full width of the tyre and must be fitted as close to the tyre as possible;
9.6 9.7	Mud flaps not to drag on the ground;
9.7	Mud flaps must be made up of a firm but flexible material, metal material may not be used;
9.9	Mud flaps may under no circumstance be manufactured from rubber car mats
9.10	Mud flaps should be fitted in such a manner that it forms part of the body;
9.11	Mud flaps may not be part of or be fitted to bumpers;
TCH10	OIL SAFETY CONTROL
10.1	Oil filters are either to be clamped or strapped;
10.2	Sump, gearbox, axle's drain and filler plugs are to be drilled and wired;
10.3	An oil catch tank, with a minimum capacity of 1 litres, capable of accepting surplus oil and fumes from the engine
	shall be fitted; (ENGINE BAY OR CAN IT BE FITTED INSIDE CAR)
10.4	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;
10.5	The catch tank is to be emptied between races;
TCH11	RADIATOR AND SAFETY CONTROL
11.1	Any standard vehicle radiator is permitted
11.2	Any coolant is permitted.
11.3	Radiators applicable to all classes – a water catch tank with a minimum capacity of 1litres shall be fitted to the
11 4	cooling system, exempted will be sealed water systems;
11.4	Under no circumstances may a water catch container be replaced with a pipe allowing steam or water
11 [(overheating) being directed outwards;
11.5	All joints that are not flared shall be double clamped, flared pipes may have one clamp only;

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11.6	All piping to and from the radiator, other than the joints and the overflow pipes shall be of steel or aluminum or coper;
11.7	The pipes must be mounted securely between the firewall and the radiator and at a height not higher the sissy bar;
11.8	All joints are to be enclosed by a rubber sock and all hoses are to be double clamped;
11.9	Radiators must be fitted in the engine compartment or in the cockpit no less than 300mm behind the driver [boot compartment]
11.10	Radiator shield protectors are mandatory when fitted in the cockpit with the following regulations applicable;
11.11	A fitment of a shield in lexan or Perspex shall be fitted to protect the competitor from a burst water pipe; The shield could be made up in two designs namely:
11.12	A straight up shield covering and protecting the competitor in full whilst seated, this to be the full range of the radiator and competitor;
	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;
TCH12	Prop shafts running below chassis:
12.1	Vehicle 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;
12.2	The hoop should be approximately 25% along the distance of the shaft as measured from the front of the prop shaft;
TCH13.	SAFETY/ROLL CAGES
13.1	The safety cage know as a roll cage is a structural framework designed to prevent serious body shell deformation
	and bodily harm in the case of collision or a car turning over;
13.2	It is compulsory for all vehicles to have a fully constructed roll cages;
13.3	Great care must be taken that roll cages are constructed in the fashion, that in an event of an accident, no
	metal piping could break off causing bodily harm. The roll cage has to be designed so to protect the
	competitor;
13.4	The example shall be a mandatory minimum requirement;
13.5	The cross bar behind the driver seat (blue) shall be mounted flush directly behind the backrest of the seat in order to support the backrest. This cross bar shall be just below the shoulder of the driver when seated;
13.6	Additional cross bars may be added to the cage;
13.7	Where the roll cage has lost strength due to bends, triangulated bracing to reinforce the cage would be necessary;
13.8	All welding points to be welded 100% and the less accessible areas no less than 75%;
13.9	Round tubing shall have a minimum outside diameter of 38mm and a minimum wall thickness of 2mm;
13.10	A maximum of two 8mm inspection holes on the left hand and right hand side of the cage shall be made for easy inspection;
13.11	The cage shall be fitted with a base plate, welded, or bolted on to the floor, sill, or wheel arch of the vehicle if
	the original body of a standard vehicle is utilized. The cage of a purpose built chassis shall for man integral part of the chassis itself and shall accordingly be welded directly onto the chassis legs.
13.12	A minimum size of base plate 60x60x4mm thick.
13.13	Where the driver's helmets could meet the safety cage, a non-flammable padding should be provided for
13.14	protection;

	Cisculars shall be fitted in such a manner that the competitor's him and knows are completely protected when
	Sissy bars shall be fitted in such a manner that the competitor's hips and knees are completely protected when he/she is strapped into the seat. The sissy bars should be constructed in such a manner that in an event of a T-
	bone incident the other vehicle would collide with the sissy bar;
TCH14	SEATS - Race Seats
14.1	Race seat minimum specifications for oval track racing: Race seat shall have holes where seat belts can be let
14.1	through, one on each side of the seat for lap belts and two on the back rest at shoulder height for the belts to
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14.2	exit to its mounting points; It is highly recommended to fit a FIA approved seat;
14.2	
14.5	Only bucket race seats permitted, no adjustable back rest reclining road car or race styled seats will be
14.4	permitted;
14.4	No fibre glass seats may be used; Seat is to be mounted against support bar across just below shoulder level;
14.5	
14.7	Aluminum seat permitted; Aluminum seat wall thickness – minimum of 2.5mm;
14.7	Steel seat permitted;
14.8	Steel seat wall thickness, minimum of 2.00mm;
14.10	Steel framed seats permitted;
14.10	Carbon fibre seat is permitted;
14.12	Carbon fibre seat wall thickness, minimum of 3.00mm;
14.13	Carbon fibre seat are to be mounted with a support bar across the back with tear plates of 100 mm x 100mm,
14.15	behind the backrest of the seat, just below shoulder height;
14.14	Vehicle that have cracked/torn and broken seats shall automatically be excluded from the event, without any
11.11	further negotiations;
14.15	Race seat need to be bolted with four x 8mm(minimum) bolts at bottom of race seat or with two x
0	8mm(minimum) of the center of seat;
14.15.1	The Seat backrest also need to be bolted to the support bar with two x 8mm(minimum) bolts;
14.15.2	8mm U bolt may be used.
TCH15	SEAT BELTS
15.1	Quick release seat belt and shoulder harness are mandatory;
15.2	Seat belts must have a minimum of four points;
15.3	No hand stitching or homemade alterations permitted to belts;
15.4	Only SABS or International standard belts permitted;
15.5	Safety belts and driver seats must be secured to the roll cage or frame (not to the floor pan);
15.6	Fitment of Seat Belts:
15.6.1	The shoulder belt will exit through the backrest of the seat horizontally to the rear mounting point with a
	minimum of 20degree (measure from horizontal) downwards to the exit point;
15.6.2	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;
15.6.3	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;
15.6.4	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;
15.6.5	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;
	See drawing for belt installation;

