

#### NATIONAL MOTORSPORT FEDERATION WITH INTERNATIONAL FEDERATION AFFILIATION

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## 2023 WOMZA SALOON CLOCKS CLASSES Dirt 1660 MODIFIEDS / 2.1LT MODIFIEDS / HOTRODS

#### **INTRODUCTION:**

**Competitor age restriction general:** 

All classes except Junior Stock Rods – see class rule

- Minimum age 13 years old for club level entries only;
- Competitor's minimum age 14 years old are permitted to enter this class at regional and national level with the approval of their promoter and local TC Representative.

Vehicle widths and lengths general:

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 (includes bumpers) but excludes purpose built pipe bumpers and width being measured from left to right of the vehicle, (body work only), excludes any side pipe rails;

#### **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 have to 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 CLASS TECHNICAL REGULATIONS

Anything not specifically mentioned or what is not written, is <u>not</u> permissible

	DESCRIPTION	1660 MODS	2.1 LT MODS	HOT- RODS
GSTC1	ELIGIBILITY OF VEHICLE AND BODIES:			
1.1	FROM 2024 no front wheel drive vehicles will be permitted in the 2.1 and			
	Hotrod classes at Nation level.			
1.1.1	Space Frames with fiberglass bodies.	<b>√</b>	✓ ✓	<b>√</b>
	Saloon car bodies [Tintops]		•	×
1.1.2	LDV Makes and Models only permitted – load capacity not to exceed 850kg Nissan 1400 / Nissan NP200 / Toyota 1200 / Ford Bantam / Mazda Rustler Proton Arena / Fiat 128 / VW Golf Caddy / Opel Corsa;	<b>√</b>	*	*
1.1.3	Station wagons and panel vans;	✓	×	×
1.2	The body utilized should have been powered by a four-cylinder or three-cylinder piston driven or rotary engine;	✓	<b>✓</b>	<b>√</b>
1.3	Any saloon body replicas may be constructed as a space frame with body panels to be solid shape – no patches, no cladding bodywork must be panels or a unit;	<b>√</b>	<b>√</b>	✓
1.4	Bootlids - All boot lids must be retained, and may be replaced with fiberglass replicas with a minimum thickness of 2mm;	<b>√</b>	✓	✓
1.5.1	Silhouette of all doors to remain standard;	✓	✓	✓
1.5.2	Competitor door may not be cut away for ease of access;  If the door is cut away for ease of access, a hinge arrangement to be fitted with a flap to bring the door back to its original shape/height;	*	*	*
1.6	Rear Wheel Drive permitted;	✓	✓	✓
	Front Wheel Drive permitted;	✓	×	×
1.7	No age restriction to model of vehicle being utilized;	✓	✓	✓
1.8	Engine manufacturer interchangeable with different body manufacturer;	✓	✓	✓
1.9	The boot catch panel between the C pullers maybe cut away and replaced with fiberglass. It shall be compulsory to fit additional piping between the C pullers that mount on the mono's to support the body structure. This piping must be flush against the fiberglass panel. See attached drawing.			
	WELD OR BOLT ON TO C. PILLAR PIPE SIZE 38MM X 2MM  REAR MONO  DOUBLE PIPE AT BACK PLUSH TO FIBER PANNEL  WELD ON TO MONO			
GSTC2 2.1	Fire Walls/Protector Walls  Vehicles must have metal firewalls between the driver's compartment and		<b>F</b>	<b>F</b>
	engine, between driver's compartment and fuel cell or fuel tank;			
2.2	All firewalls are to be constructed of metal only;	<b>F</b>	<b>F</b>	<b>F</b>
2.3	Plastic, fiberglass and rubber fire walls are not permitted;	×	×	×
2.4	Fire walls will not have any holes, other than where pipes and lead protrude fire wall with precise fitment;	<b>F</b>	<b>F</b>	<b>F</b>

CCTCC	VEHICLE CONCEDITION		1	1		
<b>GSTC3</b> 3.1	VEHICLE CONSTRUCTION  Front wheel drive care may be converted to rear wheel drive & vice versa:	<b>✓</b>	<b>✓</b>	<b>✓</b>		
3.1	Front wheel drive cars may be converted to rear wheel drive & vice versa;  The conversions must be approved by the TC and noted in scrutineer books;					
		<b>F</b>	<b>F</b>	<b>F</b>		
3.3	Four-wheel drive vehicles;	×	×	×		
CSTCA	DIMENSIONS AND WEIGHTS					
GSTC4	DIMENSIONS AND WEIGHTS			<b>✓</b>		
4.1	All four wheels of the vehicle to fit within the body of the vehicle, which in turn must comply with the maximum dimensions of the vehicles:	<b>✓</b>	<b>✓</b>			
4.2	Maximum vehicle length – 5000mm (5m)	✓	✓	✓		
4.3	Maximum vehicle width – 2000mm (2m)	✓	✓	✓		
4.4	Weight – The vehicle can be weighed anytime and must comply to a minimum	<b>F</b>	<b>F</b>	7		
	weight of 800kg including driver, excludes weight of fire extinguishers and fuel					
4.5	No weight tolerances will be permitted;	7	<b>F</b>	7		
GSTC5	BRAKES	1660	2.1 LT	нот-		
		MODS	MODS	RODS		
5.1	Brakes General:					
5.1.1	Brakes are mandatory on all four wheels;		<b></b>			
5.1.2	Brake lights are mandatory and operational always;		7			
5.1.3	Brake lights must be red and be mounted in plain sight for competitors to observe without restriction;		7			
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;	<b>5</b>				
5.1.5	Brake lights to work off brake pedal operated switch;		<b>T</b>			
5.1.6	No ON/OFF switches permitted on brake light system;	<b>*</b>				
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;					
	· · · · · · · · · · · · · · · · · · ·		<b></b>			
5.2.3	Red light – round, minimum of 50mm in diameter and a maximum of 100mm;		<b></b>			
5.2.4	Rectangular or square brake lights shall be a minimum of 50mm square with a maximum of 100mm;		<b>F</b>			
5.2.5	Brake light appearance shall always remain bright, any dull brake light appearance may be rejected by the scrutineer;		<b>F</b>			
5.3	Brake Mechanism: -					
5.3.1	Single or twin pot brake calipers may be used on the front or rear wheels;	<b>✓</b>	<b>✓</b>	OPEN		
5.3.2	Brake calipers have to originate from production road going vehicles;	✓ ·	✓	OPEN		
5.3.3	Only single or twin pot brake calipers may be used to replace drum brakes on the rear wheels;	<b>✓</b>	<b>✓</b>	OPEN		
5.3.4	ABS or any other electronic driving aids;	×	×	×		
5.3.5	Brakes is open with exception of the use ABS or any other electronic driving	*	*	<b>✓</b>		
5.3.6	aids; Local 4 pot production calipers allowed.	×	OPEN	OPEN		
5.3.7	Brake balancing, one adjustment front to back;	<b>^</b>	OPEN ✓	OPEN ✓		
			<b>∨</b> ✓	<b>→</b>		
5.3.8	Brake balancing twin adjustment front to back and left to right;	<b>x</b>	<b>∨</b>	<b>∨</b> ✓		
5.3.9	All Handbrakes to be removed;	<b>V</b>	<b>V</b>	<b>,</b>		
GSTC6	BUMPERS					
	·					

6.1.1	No external steel bumpers permitted, refer to internal bumper regulation;	<b></b>	7	7
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	<b>F</b>	Ð	7
	larger pipe with			
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	✓	✓	<b>✓</b>
6.2.2	The internal bumper shall be shaped in accordance with the vehicle's silhouette no more than 6 mounting points.	7	<b>F</b>	<b>F</b>
6.2.3	Additional radiator protection may be installed internally with no more than 4 mounting points;	✓	✓	✓
6.2.4	Additional protection piping maybe be added in the boot area no less than			
	100 mm apart from the rear bumper. Not more than three uprights.  Constructed of a single horizontal pipe 38 x 2 mm	✓	✓	✓
6.2.5	Vehicles that are manufactured with steel bumpers must be replaced with plastic or fibre glass bumpers, fitted with a single or double 38mm x 2mm pipe inside shaped according to the bumper; The gap between the upper and lower pipes must be a minimum of 100 mm pipe apart and may have a maximum of 3 vertical support in between the upper and lower pipe. The support pipe to be a maximum of 38mm x 2 mm.	✓	<b>✓</b>	<b>*</b>
6.2.6	Only plastic or fibre glass bumpers not exceeding 3mm thick may be fitted externally for cosmetic purposes only, no steel stiffeners permitted;	✓	<b>√</b>	<b>√</b>
6.2.7	No piping to protrude outside of bodywork;	<b>F</b>	7	Ð
GSTC7	STEERING AND SUSPENSION			
7.1	Steering racks, steering boxes or quick ratio versions thereof, power steering from production vehicles;	✓	✓	<b>✓</b>
7.2	Rose joints;	✓	✓	✓
7.3	2,3,4,5,6 link rear suspensions;	✓	✓	✓
7.4	Spring adjustments;	✓	✓	✓
7.5	Freely available over the counter shocks eg., Armstrong, Monroe, Gabriel Maxtrio and JOM shall be permitted, no competition shocks – standard shocks only;	✓	<b>✓</b>	open
7.6	Gas shocks is permitted as per 7.5;	✓	<b>✓</b>	open
7.7	Competition shocks with single bump and rebound adjustment;	×	✓	open
7.8	Suspension designs are free;	<b>F</b>	<b>F</b>	- T
7.9	The use of biscuit or damper (90-10) shock; allowed on diff.	×	<b>√</b>	<b>✓</b>
7.10	Clip-on steering wheels is permitted (no homemade clip-on device)	<b>√</b>	✓	✓
GSTC8	EXHAUSTS:			
8.1.1	Exhausts and silencer boxes mandatory and must comply to prescribed noise levels;			1
8.1.2	Maximum decibels 108, measured 1metre away at 5000rpm;  Branches;	<b>√</b>	✓	<b>✓</b>
J.1.2	Stationes,	<u> </u>		
8.2	Exhaust Fitment			
8.2.1	Exhaust outlet must face downwards underneath the vehicle;		<b>F</b>	
8.2.2	All piping shall be secured with saddles, preventing exhaust pipes from coming free in the event of it breaking off;		<b>B</b>	
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.		<b>F</b>	

8.2.4	Saddles are to be bolt on type;	<b>F</b>
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;	7
8.2.6	Exhaust systems installed above the floor pan may not protrude more than 50mm beyond the body silhouette;	<b>F</b>
	A suitable metal plate mounted away from the exhaust in order that it acts, as	<b>F</b>
8.2.7	an effective heat shield shall cover the pipe inside the driver's compartment.	

GSTC9	FLYWHEELS	1660 MODS	2.1 LT MODS	HOT- RODS
9.1	Cast steel/iron, aluminum and metal fly wheels;	✓	✓	✓
9.2	It is highly recommended that the use of steel or aluminum fly wheels are used;	<b>F</b>	<b>F</b>	<b>F</b>
9.3	When lightening fly wheels, keep the lightening limited for safety purposes;	<b>F</b>	<b>F</b>	7
9.4	Beams engine flywheel, mass flywheel may be changed to the solid flywheel as long as it originates from the same engine	-	✓	<b>√</b>
GSTC10	FUEL			
10.1	Fuel open, unless specified under class regulation;	✓	✓	✓
10.2	Performance enhancing additives;	✓	✓	✓
10.3	Methanol lubricants;	✓	✓	✓
10.4	Only normal service station pump fuel 95 octane and lower is permitted on 2.1 multi valve units		<b>F</b>	
GSTC11	FUEL MANAGEMENT AND CARBURETION:			
11.1	Aftermarket Fuel and ignition management system;	✓	✓	✓
11.2	Aftermarket throttle bodies permitted, maximum inside diameter per cylinder (measured in mm);	*	45max	open
11.3	Single Throttle Body (measured in mm) (original on 2.1L multi valve units);	58max	70max	open
11.4	Restrictor plate after throttle body on 2.1 multi valve units only	*	TBA	×
11.5	Jets and injectors sizes Open (Not on 2.1L multi valve units);	✓	✓	✓
11.6	Side draughts permitted;	40max	48max	open
11.7	Choke tubes; It shall not exceed as stipulated if measured at any point across diameter;	36max	open	open
11.8	Ram Tubes;	✓	✓	✓
11.9	Slide Throttle Bodies;	×	×	×
11.10	Mechanical and Electrical Fuel Injections;	✓	✓	✓
11.11	Fuel pressure regulator;	✓	✓	✓
11.12	Two parallel springs on carburetor or throttle unless it has two original springs as original design;	<b>-</b>	<b>F</b>	<b>F</b>
GSTC12	ENGINE			
12.1	General			
12.1.1	Engine may be solid mounted;	<b>√</b>	<b>✓</b>	<b>✓</b>
12.1.2	Air Cleaners and air boxes are open;	✓	✓	✓
12.1.3	Removal of alternators or charging system;	✓	✓	✓
12.1.4	Intake manifold modifications permitted excluding 2.1L multi valve units;	✓	7	✓

12.1.5	Head modifications permitted but must be of same manufacture as engine excluding 2.1L multi valve units;	✓	7	$\checkmark$						
12.1.6	Camshaft modification permitted, excluding 2.1L multi valve units;	✓	<b>F</b>	✓						
12.1.7	Dry Sump permitted, excluding 2.1L multi valve units;	✓	<b>F</b>	✓						
12.1.8	Aftermarket pistons and rods permitted, excluding 2.1L multi valve units;	<b>√</b>	<b></b>	<b>√</b>						
12.1.9	Compression ratio modification permitted, excluding 2.1L multi valve units;	✓								
12.1.10	Turbo\supercharger;			<u> </u>						
		*	*							
12.1.11	Motorcycle engines;	*	*	*						
12.1.12	Balancing of engine;	<b>√</b>	<b>√</b>	<b>√</b>						
12.1.13	Any lubricant is permitted.	✓	✓	<b>√</b>						
	DDIFIED SALOONS									
12.2	ENGINE:									
12.2.1	Engines, blocks and cylinder head utilized will only be permitted, if more than 5 vehicle from which it originated in South Africa; Engines, blocks and cylinder permitted if more than 5000 units were sold in the world from which it originate	head util								
12.2.2	The use of the Nissan A15 engine is specifically permitted, subject to all other lir	mitations	;							
12.2.3	The use of an engine originating from another model, manufactured by the same of an engine from another manufacturer shall be permitted, provided that that criteria as set out above, e.g. (Nissan 1200 can be replaced with a Nissan 1500 c replaced with a Ford engine.);	engine c	omplies v	vith the						
12.2.4	The engine shall have no more than 4 cylinders									
12.2.5	1450CC – 16Valve permitted – no tolerance									
12.2.6	1550cc – 12 valve permitted – no tolerance									
12.2.7	1660cc – 8 valve permitted – no tolerance									
2.1 LT M	ODIFIED SALOONS									
12.3	ENGINE:									
12.3.1	Engines, blocks and cylinder heads utilized will only be permitted, if more the worldwide;	an 5000	units we	re sold						
	8 VALVE UNITS									
12.3.2	Three or four cylinder 4 stroke piston driven engine, overhead valve or overhead	d cam pe	rmitted;							
12.3.3	Maximum volume 2100cc, with no tolerance;									
12.3.4	No aftermarket Throttle bodies permitted, they must originate from a production	n road g								
	The article and the article permitted, they must be really and production		oing vehi	cle;						
	16 VALVE UNITS:		oing vehi	cle;						
12.3.5			oing vehi	cle;						
12.3.5 12.3.6	16 VALVE UNITS:		oing vehi	cle;						
12.3.6 12.3.7	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units;		oing vehi	cle;						
12.3.6 12.3.7 12.3.8	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted.		oing vehi	cle;						
12.3.6 12.3.7 12.3.8 12.3.9	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum.		oing vehi	cle;						
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted.		oing vehi	cle;						
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted. No Honda engines allowed.			cle;						
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11 12.3.12	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted. No Honda engines allowed. The VVL SR20V up graded motor not permitted, no N1 cams permitted in the VV.	/L engine	s;							
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11	16 VALVE UNITS:  Limited to a maximum of 2000cc  Standard bore plus 60though oversize for multi valve units;  No Methanol fuel permitted in the Multi Valve units;  Only original camshafts and fuel injectors permitted.  Pulleys can be replaced by steel or aluminum.  Competition\performance crankshaft, piston, conrods not permitted.  No Honda engines allowed.  The VVL SR20V up graded motor not permitted, no N1 cams permitted in the VV VVL SR20V intake manifold maybe altered to accommodate frame construction,	/L engine	s;							
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11 12.3.12 12.3.13	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted. No Honda engines allowed. The VVL SR20V up graded motor not permitted, no N1 cams permitted in the VV VVL SR20V intake manifold maybe altered to accommodate frame construction, remain standard;	/L engine	s;							
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11 12.3.12 12.3.13	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted. No Honda engines allowed. The VVL SR20V up graded motor not permitted, no N1 cams permitted in the VV VVL SR20V intake manifold maybe altered to accommodate frame construction, remain standard; The dual mass flywheels may be replaced with the solid flywheel	/L engine	s;							
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11 12.3.12 12.3.13	Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted. No Honda engines allowed. The VVL SR20V up graded motor not permitted, no N1 cams permitted in the VV VVL SR20V intake manifold maybe altered to accommodate frame construction, remain standard; The dual mass flywheels may be replaced with the solid flywheel Aftermarket or self-manufactured timing chain tensioners allowed	/L engine	s;							
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11 12.3.12 12.3.13 12.3.14 12.3.15 HOTROD	16 VALVE UNITS: Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted. No Honda engines allowed. The VVL SR20V up graded motor not permitted, no N1 cams permitted in the VV VVL SR20V intake manifold maybe altered to accommodate frame construction, remain standard; The dual mass flywheels may be replaced with the solid flywheel Aftermarket or self-manufactured timing chain tensioners allowed	/L engine	s;							
12.3.6 12.3.7 12.3.8 12.3.9 12.3.10 12.3.11 12.3.12 12.3.13	Limited to a maximum of 2000cc Standard bore plus 60though oversize for multi valve units; No Methanol fuel permitted in the Multi Valve units; Only original camshafts and fuel injectors permitted. Pulleys can be replaced by steel or aluminum. Competition\performance crankshaft, piston, conrods not permitted. No Honda engines allowed. The VVL SR20V up graded motor not permitted, no N1 cams permitted in the VV VVL SR20V intake manifold maybe altered to accommodate frame construction, remain standard; The dual mass flywheels may be replaced with the solid flywheel Aftermarket or self-manufactured timing chain tensioners allowed	/L engine	s;							

	8 VALVE WITH TURBO\SUPERCHARGER:						
12.4.2	Limited to 2200cc, plus 60 thou oversize;						
	MULTI VALVE UNITS:						
12.4.3	Limited to a maximum of 2450cc no tolerance;						
	MULTI VALVE UNITS WITH TURBO\SUPERCHARGER:						
12.4.4	Limited to a maximum of 2000cc						
12.4.5	Standard bore plus 60though oversize for multivalve engines of 12valve, 16valve and 20 valve;						
42.4.6	ROTARY UNITS AND ROTARY TURBO\SUPERCHARGER UNITS:						
12.4.6	Limited to twin rotor engines, without turbo, any porting;						
12.4.7	Rotary Turbo/Supercharger unit, maximum bridge port allowed;						
12.4.8	Carburetion is open;						
12.4.9	Fuel injection is open except no slide type throttles are permitted;						
12.4.10 12.4.11	All rotors shall be of ferrous metal – no aluminum/titanium permitted;						
12.4.11	Roller bearing on eccentric shafts not permitted;  Aftermarket intake and throttle bodies permitted;						
12.4.12	Turbo is limited too maximum T4;						
12.4.15	Turbo is limited too maximum 14;						
GSTC13	TRANSMISSION						
13.1	Differentials utilized will only be permitted if more than 5000 units were sold worldwide	<b>F</b>	7	7			
13.2	Gear ratios;	open	open	open			
13.3	Diff ratios;	open	open	open			
13.4	Only standard differentials and gearboxes;	✓	✓	✓			
13.5	Aftermarket gearsets;	×	✓	✓			
13.6	Sequential gearboxes;	×	×	×			
13.7	Locked differentials;	✓	<b>✓</b>	<b>✓</b>			
13.8	Limited slip differential;	×	✓	✓			
13.9	Clutches Open	<b>√</b>	<b>✓</b>	<b>✓</b>			
GSTC14	WHEELS AND TYRES						
14.1	Double wheels;	×	×	×			
14.2	Normal, road legal tyres new or re-tread;	<b>√</b>	<b>✓</b>	<b>✓</b>			
14.3	Tyres must be freely available from any tyre dealer;	<b>√</b>	<b>✓</b>	<b>✓</b>			
14.4	Tyres may not bare the inscription "not for highway use, for racing purposes only";		<u></u>				
14.5	Tyre identification – under no circumstances may the tyre manufacturer's original extruded side wall markings, indicating manufacturer's details, size, profile, country of origin, ratings, serial numbers and batch codes be removed or altered;		Ħ				
14.6	No Rally tyres;	×	×	×			
14.7	No purpose built or manufactured race tyres are permitted	<b>F</b>	<b>F</b>	<b>F</b>			
14.8	Grooving of tyres permitted	✓	✓	✓			
14.9	Tyres - maximum width of 205 are permitted; with a maximum diameter	15"	16"	16"			
	Rims	8J	10J	10J			
14.10	No plastic rims permitted;	×	×	×			
14.11	Rims Sizes	13-15"	13-16"	13-16"			
14.12	Bead Locks – number per vehicle per rim and/or "Free shall mean one per rim"	2	Free	Free			
14.13	Bead protectors permitted on all wheels	✓	✓	✓			
14.14	Tyres/wheels may not protrude beyond the wheel arches or bodywork in saloon classes;		Ð				
14.15	All wheel studs, nuts and bolts are to be fitted and in place;		<b>F</b>				

	protrude beyond the face of the beadlocks.			
14.17	Only open-ended nuts may be used;		<b>F</b>	
14.18	In all instances the stud must protrude the nut;		7	
14.19	Wheel bolts eg., like most German vehicles, the bolt must fasten at least by the diameter of the bolt in depth;		<b>F</b>	
14.20	All tyres must be presented at scrutineering;		7	
GSTC15	WINGS:			
15.1	Wings - optional;	<b>√</b>	<b>✓</b>	<b>/</b>
15.2	Wings a optional, Wings may not exceed the body width	<b>√</b>	<b>√</b>	<b>✓</b>
15.3	Rear wing hang over may not exceed a maximum 100 mm past the rear	*	<b>✓</b>	
15.5	of the vehicle measured from the boot catch panel.	*		
15.4	Wing end plates to be a maximum of 500mm x 500mm; with a tolerance of 50mm.	✓	<b>√</b>	<b>√</b>
15.5	Vertical plates permitted shall not exceed 4 x vertical plates;	✓	✓	<b>✓</b>
15.6	Van size and choice shall be a maximum of two, the accumulative van length shall not exceed the length of 600mm measured together	✓	<b>✓</b>	<b>✓</b>
15.7	The first horizontal vane cannot exceed 500mm in length;	✓	✓	<b>√</b>
15.8	The second vane may not exceed 100mm in length and may be adjustable;	✓	✓	✓
15.9	Wing to be mounted from "B" pillar backwards;	✓	✓	✓
15.10	Height of wing should be no higher than 300mm from the highest point of the roof to the highest part of the vane;	<b>√</b>	<b>✓</b>	<b>✓</b>

The Beadlocks must have a smooth face with no sharp edges or studs that

## **QUICK INDEX 1660 MODIFIED SALOONS**

14.16

1660 MODS GUIDELINES		Fuel pressure regulator	✓
Aftermarket ignition systems	✓	Homemade Steering mechanism	×
Air boxes.	✓	Independent rear suspension	✓
Altered camshaft drive	×	Induction and ram tubes.	✓
Altered rocker ratios not permitted	×	Limited slip diff.	×
Removal of alternators or charging system is permitted	✓	Single shock per wheel, maximum 4shocks per vehicle	✓
Aluminum fly wheel	✓	Mechanical and electrical fuel injection.	✓
Any bore and stroke ratio (1660cc maximum)	✓	Modified Tappet covers	✓
Any compression ratio	✓	No aftermarket roller rockers	✓
Branches	✓	Pressure plate ANY (eg Tilton)	✓
Camshaft profiling	✓	Pulley sizes/ratio	✓
Clutch Plate – Button clutch plates	✓	Single or twin pot per wheel maximum 4 calipers per vehicle	✓
Competition Valves	✓	Locked diff.	✓
Competition/performance Conrods	✓	Station wagon, panel vans and LDV	✓
Competition/performance Crankshaft	✓	sump volume and design	✓
Competition/performance piston and rings	✓	Throttle bodies	×

Electric fuel pump	✓	Vernier pulleys allowed	✓
Electric water pump	✓	Weber and Dell'orto carb parts interchangeable	✓
	×	Wings not to be adjusted while driving, can be	✓
Forced induction (turbo - supercharger)		adjusted in pits	
Front or rear wheel drive space frame.	✓	Wish bone suspension front	✓

## **QUICK INDEX 2.1 LT MODIFIED SALOONS**

2.1 LT MODS GUIDELINES		Fuel pressure regulator	✓
Aftermarket ignition systems	✓	Homemade Steering mechanism	×
Air boxes.	✓	Independent rear suspension	✓
Altered camshaft drive	×	Induction and ram tubes.	✓
Altered rocker ratios not permitted	×	Limited slip diff.	✓
Removal of alternators or charging system is permitted	✓	Single shock per wheel, maximum 4shocks per vehicle	✓
Aluminum fly wheel	✓	Mechanical and electrical fuel injection.	✓
Any bore and stroke ratio on 8 valve unit (2100cc maximum)	✓	Single or twin pot per wheel maximum 4 calipers per vehicle	✓
Any compression ratio (On 8 valve units)	✓	Modified Tappet covers	✓
Branches	✓	Pressure plate ANY (eg Tilton)	✓
Camshaft profiling (On 8 valve units)	✓	Pulley sizes/ratio	✓
Clutch Plate – Button clutch plates	✓	No aftermarket roller rockers	✓
Competition Valves (On 8 valve units)	✓	Locked diff.	✓
Competition/performance Conrods (On 8 valve units)	✓	Competition/performance piston and rings (On 8 valve units)	✓
Competition/performance Crankshaft (On 8 valve units)	✓	Wings not to be adjusted while driving, can be adjusted in pits	✓
Front and rear wheel drive space frame	✓	Throttle bodies (On 8 valve units)	✓
Electric fuel pump	✓		✓
Electric water pump	✓	sump volume and design	
Forced induction (turbo - supercharger)	×	Wish bone suspension front	✓

## **TECHNICAL CONSTRUCTION SALOONS REGULATIONS**

TCS 1.	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	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	

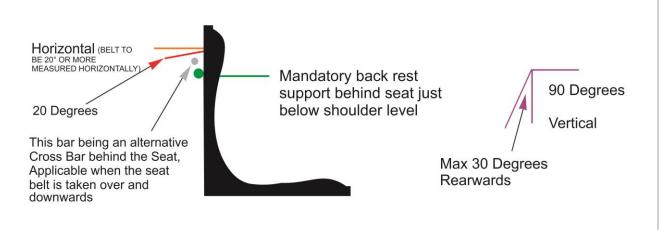
	The only helmet that will be approved must bear the SABS or of a higher standard and a type that is suitable
	for highway usage;
1.13	The Scrutineer may condemn a helmet or confiscate a helmet until after a race meeting, if, the visor is cracked, the helmet has a visible crack and if the helmet straps are in any way sub-standard;
1.14	Recommended washing instructions of race suites:
	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.
TCS2	SAFETY REGULATIONS
1032	<u>SALETT REGULATIONS</u>
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 litres 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	Methanol – it shall be mandatory that all methanol storage containers (Jerry can) be marked by a spray of
	paint or sticker, the letter <b>M</b> or in full Methanol, the colour to be used shall be red or orange;
2.7	All flammable items such as dashboards, plastics, carpets, upholstery and hood lining must be removed;
2.8	All bitumen cladding on the interior of the vehicle has to be removed;
2.9	All lights and windows must be removed from the vehicle, only the rear side windows may be replaced with
	clear lexan;
2.10	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;
2.11	Bonnets shall be constructed and fit in such a manner that no open gaps will display when closed;
2.12	All piping (brakes and fuel) and wiring must be installed above the floor board or chassis;
2.13	Vehicles shall be able to self-start and self-starters have to be in a working condition;
	g comments and a second
TCS3	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, eg., 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;
3.11	In all instances batteries should be easily accessible for scrutineers to inspect;
TCS4	COMPETITION NUMBERS ON VEHICLES DISPLAYS
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;  4.11.1 Only viny 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 and slogans may not be of discriminatory manner; 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 clear 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 on wheels and underneath of car.  TCSS  ENGINE POSITIONS: 5.1 Rear mounted engine vehicles must be mounted behind the rear wheels, saloons class only, the positions of the engines may not be altered in any manner and must be retained in the original manufactured fitted position; 5.2 No midmount engines permitted in saloon classes; 5.3 The rear face of the engine is where the bell housing and the engine meet; 5.4 Measurements applicable to engine positions of front mounted engines, 5.5 In rear wheel drive vehicles; 5.6 The back face of the engine will not be more than 600mm backwards from a line drawn across the centers of the two front wheels which will be determined by means of a plumb line using the method described as in the drawing; 5.6 The engine may not be fitted with a offset of more than 50mm from the center line of the vehicle; 5.7 The back face of the engine will not be more than 600mm backwards from a line drawn across the centers of the two front wheels which will be determined by means of a plumb line using the method described as in the drawing; 6.1 The engine may not be fitted with a offset of more than 50mm from the center line of the ve		
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<ul> <li>4.11.5 Numbers 1, 2 and 3 will be reserved for WOMZA Final Championships only;</li> <li>4.11.6 No longer may clubs use 1, 2 or 3 for Club Champions or zero numbers;</li> <li>4.11.7 Only, rear side windows (which are to be replaced with clear lexan or polycarbonate) may be sign written, no more than 50% of the window may be covered with sign writing;</li> <li>4.11.8 No lights (LED) are permitted on the outside on the frame including wings.</li> <li>4.11.10 Lights (LED) are permitted on wheels and underneath of car.</li> <li>7.2 ENGINE POSITIONS:</li> <li>8.6 Rear mounted engine vehicles must be mounted behind the rear wheels, saloons class only, the positions of the engines may not be altered in any manner and must be retained in the original manufactured fitted position;</li> <li>5.1 No midmount engines permitted in saloon classes;</li> <li>5.2 No midmount engines permitted in saloon classes;</li> <li>5.3 The rear face of the engine is where the bell housing and the engine meet;</li> <li>5.4 Measurements applicable to engine positions of front mounted engines, in rear wheel drive vehicles;</li> <li>5.5 The back face of the engine will not be more than 600mm backwards from a line drawn arcoss the centers of the two front wheels which will be determined by means of a plumb line using the method described as in the drawing;</li> <li>5.6 The engine may not be fitted with a offset of more than 50mm from the center line of the vehicle;</li> <li>5.7 The vehicle must be built symmetrically when viewed/measured from the front or rear;</li> <li>7 EVEL TANKS AND FUEL PIPES:</li> <li>7 Vehicle may not retain the original position of their fuel tanks, shall be removed from the original position;</li> <li>6.1 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;</li> <li>6.1 How will be designed the first fuel tanks shall be no less than 1mm;</li> <li>6.2 It is large that the property designed a</li></ul>	4.11.4	
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7.6	If the internal kill switch cannot be reach by an official easily, it shall be mandatory for an additional external
7.6	kill switch to be fitted;
	The effect of the Kill switch/es 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;
	AMPROPE
TCS8	MIRRORS Only and resistant required on the incide of vehicle poweritted.
8.1	Only one mirror mounted on the inside of vehicle permitted;  Maximum size of mirrors 100mm x 200mm;
8.2	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	
TCS9	MUDFLAPS  Manufacture and such interest of the such
9.1	Mandatory on vehicle
9.2	Mud flaps to be fitted behind the rear wheels of rear wheel drive cars;
9.3	Mud flaps to be fitted behind the rear wheels and behind the front wheels of front wheel drive vehicles;
9.4	Mud flaps must be positioned directly behind the wheels and not more than 100mm from the back face of
9.5	the wheels;  Distance of mud flap from ground level with driver seated, measured from the bottom of the mud flap to
3.3	ground level is maximum 100mm and minimum 50mm, with the competitor seated and wheels inflated to
	racing pressures;
9.6	Mud flaps to cover the full width of the tyre and must be fitted as close to the tyre as possible;
9.7	Mud flaps not to drag on the ground;
9.8	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;
TCS10	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;
TCS11	PROP SHAFT/DRIVE SHAFT/RUNNING GEAR PROTECTION
11.1	General Prop shaft protection hoops:
11.1.1	Drivers must be protected from open running prop shafts by two steel bands, with a minimum width of 50
11.1.2	mm; These bands shall at least be 5mm thick and be bolted or welded to the chassis;
11.1.3	These bands are to prevent a broken shaft from lifting and coming into the cockpit area;
	The one band shall be a maximum of 150 mm behind the front yoke measured from the front of the prop
11.1.4	shaft;
11.2	Prop shafts running below chassis:
11.2.1	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;
11.2.2	The hoop should be approximately 25% along the distance of the shaft as measured from the front of the
	prop shaft;
TCS12	RADIATOR SAFETY CONTROL
12.1	Any radiator is permitted
12.2	Any coolant is permitted
12.3	

A water catch tank with a minimum capacity of 1 litres shall be fitted to the cooling system, exempted will be 12.4 sealed water systems; Under no circumstances may a water catch container be replaced with a pipe allowing steam or water 12.5 (overheating) being directed outwards; 12.6 All joints that are not flared shall be double clamped, flared pipes may have one clamp only; All piping to and from the radiator, other than the joints and the overflow pipes shall be of steel or aluminum 12.7 12.8 All piping to and from the radiator, other than the joints and the overflow pipes shall be of steel; The pipes must be mounted securely between the firewall and the radiator and at a height not higher the 12.9 sissy bar; 12.10 All joints are to be enclosed by a rubber sock and all hoses are to be double clamped; 12.11 Radiators must be fitted in the engine compartment or in the cockpit no less than 300mm behind the driver 12.12 [boot compartment] Radiator shield protectors are mandatory when fitted in cockpit with the following regulations applicable; A fitment of a shield in lexan or Perspex shall be fitted to protect the competitor from a burst water pipe; 12.13 12.14 The shield could be made up in two designs namely: 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; TCS13 **SAFETY/ROLL CAGES** 13.1 The safety cage know as a roll cage is a structural framework designed to prevent serious bodyshell 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; Great care must be taken that roll cages are constructed in the fashion, that in an event of an accident, no 13.3 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; The cross bar behind the driver seat (blue) shall be mounted flush directly behind the backrest of the seat in 13.5 order to support the backrest. This cross bar shall be just below the shoulder of the driver when seated; Additional cross bars may be added to the cage; 13.6 Where the roll cage has lost strength due to bends, triangulated bracing to reinforce the cage would be 13.7 necessary; All welding points to be welded 100% and the less accessible areas no less than 75%; 13.8 13.9 Round tubing shall have a minimum outside diameter of 38mm and a minimum wall thickness of 2mm; A maximum of two 8mm inspection holes on the left hand and right-hand side of the cage shall be made for 13.10 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. 4 Gusset plates shall be fitted in the roof on each corner to secure the roll gage and the roof by welding it 13.12 together to support the body structure of Tin Top vehicles. 13.13 A minimum size of base plate 60x60x4mm thick. Where the driver's helmets could meet the safety cage, a non-flammable padding should be provided for protection;

	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;
TCC14	SEATS Book South
TCS14	SEATS - Race Seats  Page cost minimum specifications for eval track racing: Page cost shall have helps where seat helts can be
14.1	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;
	It is highly recommended to fit a FIA approved seat;
14.2	Only bucket race seats permitted, no adjustable back rest reclining road car or race styled seats will be
14.3	permitted;
	No fiber glass seats may be used;
14.3	Seat are to be mounted against support bar across just below shoulder level.
14.4	Aluminum seat permitted;
14.5	Aluminum seat wall thickness – minimum of 2.5mm;
14.6	Steel seat permitted; Steel seat wall thickness, minimum of 2.00mm;
14.7	Steel framed seats permitted;
14.8	Carbon fiber seat is permitted
14.9	Carbon fiber seat wall thickness, minimum of 3.00mm
14.10	Carbon fiber seat are to be mounted with a support bar across the back with tear plates of 100 mm x 100mm,
14.11	behind the backrest of the seat, just below shoulder height;
14.12	Vehicle that have cracked/torn and broken seats shall automatically be excluded from the event, without any
	further negotiations;
14.13	Race seat need to be bolted with four 8mm(minimum) bolts at bottom of race seat or with two
14.14	8mm(minimum) of the center of seat. The Seat backrest also need to be bolted to the support bar with two 8mm(minimum) bolts. 8mm U bolt may be used.
TCS15	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;
15.4	Safety belts and driver seats must be secured to the roll cage or frame (not to the floor pan);
	Fitment of Seat Belts:
15.6 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;  If the fitment of the shoulder belt cannot fit as above, the fitment of the shoulder belt may be taken down
15.6.4	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;  Existing vehicles that have seat belts and seats mounted to the floor pan must be supported by 50mm x
15.6.5	50mm washers or 75mm x 2mm in diameter tear plate; See drawing for belt installation;



TCS16	SPACE FRAME / PURPOSE BUILT / SEMI-SPACE VEHICLES
16.1	Space Frame Vehicle definition:
16.1.1	A space frame vehicle is a tubular frame constructed of square or round tubing to form the chassis and roll
	cage as a unit and has a detachable body shell. The body work must be detachable;
16.2	<b>Space framed</b> vehicles under construction – Once the competitor has completed the frame prior to them
16.2.1	fitting the body panels, they are obliged to contact the vehicle construction safety team (these appointments
	have been made at each club) in order for them to inspect the carcass framework.
16.2.2	The inspection in particular will include the checking of the welding, roll cage, suspension and various
	mounting points;
16.2.3	The team will similarly note in the scrutiny book of the competitor that the vehicle had been inspected and
	has safely been passed.
16.3.1	Purpose built and Space framed vehicles – competitor entry and exit into the driver cockpit;
16.3.2	It shall be mandatory for all competitors to gain access through the "driver door" side;
16.3.3	Should the height of the door impair access it shall not be cut away but shall have a hinge arrangement
	whereby it folds, at or near the top sissy bar; Doors may be made fully removable, provided they are securely fitted during races. The securing pins shall
16.3.4	be removable from the outside;
	All semi-space frame, space-frame or purpose built vehicles shall have a reinforced floor area for the driver's
16.4.1	seat and feet;
10.10	No alterations to the roof standard car bodies permitted;
16.4.2	
TCS17	TOW HOOKS
17.1	Vehicle are to install tow hooks to the front and back of the vehicle;
17.2	These may not protrude beyond the bumpers of the vehicle;
17.3	It should be clearly marked in red, yellow or orange for tow-vehicle crew to tow the vehicle with the least
TCC10	delay;
TCS18	WEIGHTS  Valviola valviola valviola to incorpora valviola valviola de la
18.1	Vehicle which require to increase vehicle weights shall do so by fitting ballasts:
18.2	Ballasts, is a non-functional material added to increase vehicle weight.
18.3	Any ballast must be permanently fixed to the structure of the vehicle by means of bolting, wiring and
10.4	strapping of ballasts is prohibited;
18.4	All ballast must be clearly marked by a contrasting colour to the interior of the vehicle;
18.5	Championship events – once vehicles have been weighed the Scrutineer shall have the right to wax seal
	ballasts;

Fitted fire-extinguishers shall be removed or it's weight reading shall be taken into consideration and be

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;

18.6

18.7

18.8

excluded for weighing purpose;

No weight tolerances will be permitted;

TCS19	WELDING
19.1	All joints and seams in the construction of the vehicle are to be properly mitered and shall be welded.
19.2	All visible welding shall be 100%.
TCS20.	WHEEL AND BODY PROTECTOR
20.1	Wheel and body sill protectors are fitted between the front and the rear wheels at sill height and may be fitted to all saloon vehicle classes, with the exception of the 1600 Standard Saloons;  The wheel and body protector must be straight and only curve inwards at each end once mounted;
20.2	The material used shall not exceed 2mm thickness. The protector may not protrude more than 80mm beyond the wheel and must be flush with the bodywork;
20.3	No sharp edges or open round piping permitted, as these shall be rounded back to the chassis or mounting points;
20.4	Fender flairs
20.4.1	The use of fender flairs is permitted
20.4.2	Fender flairs constructed from fiber glass max 3mm in thickness, may not have any additional steel reinforcements.
20.4.3	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.
TCS21.	WINDSCREENS AND GLASS WINDOWS
21.1	All windscreens and glass windows shall be removed if vehicle is being campaigned permanently on dirt;
21.2	Only the rear side windows may be replaced with lexan or polycarbonate;