

2025

National Drag Racing Technical

Standing Supplementary Regulations



Version 1 30 May 2025

REVIEW AND AMENDMENTS

Motorsport South Africa (MSA) will periodically review these rules and will present the revised version to all members for agreement to publish the updated version.

Amendments and updates to the rules will be recorded in the Amendment Record, detailing the updated version, date of approval of the amendment and a short summary of the amendment.

AMENDMENT RECORD

Date applicable	Date of Publication	Clarifications
	Date applicable	Date applicable Date of Publication Image: Constraint of the second s

		INDEX				
1.		ICS OF DRAG RACING				
2.	REGIONAL/CLUB CHAMPIONSHIP, DRAG RACING CATEGORIES AND CLASSES					
3.		ONSHIP AND CHALLENGE COMPETITION POINT SCORING				
4.	DRAG R	ACING RULES, REGULATIONS AND SPECIFICATIONS				
5.		ND SAFETY REGULATIONS				
6.	VEHICLE	CONSTRUCTION AND GENERAL SAFETY REGULATIONS: (Click on links provided).				
	CR 1	AEROFOIL				
	CR 2	ALIGNMENT				
	CR 3	ANTI-BLOWBACK DEVICE				
	CR 4	ARM RESTRAINTS				
	CR 5	AUTOMATIC TRANSMISSION PROTECTION				
	CR 6	AUTOMATIC TRANSMISSION GEAR SHIFTERS				
	CR 7	BALLAST				
	CR 8	BATTERIES				
	CR 9	BATTERY LOCATION MARKERS				
	CR10	BRAKES				
	CR11	BURNOUTS				
	CR12	CLUTCH				
	CR13	COOLING SYSTEM				
	CR14	DEFLECTOR PLATE				
	CR15	DELAY BOXES				
	CR16	DRIVELINES				
	CR17	DRIVELINE ANTI-ROTATION DEVICE				
	CR18	DRIVER'S COMPARTMENT				
	CR19	ENGINE				
	CR20	ESCAPE HATCH (FUNNY CARS)				
	CR21	EXHAUST				
	CR22	FIRE EXTINGUISHERS AND FIRE BLANKETS				
	CR23	FIRE BLANKET				
	CR24	FIREWALLS				
	CR25	FLASH SHIELDS				
	CR26	FLOORS				
	CR27	FLYWHEELS				
	CR28	FLYWHEEL SHIELDS (Vehicles quicker than 11.99 seconds)				
	CR29	FLYWHEEL SHIELDS				
	CR30	FRAME/CHASSIS				
	CR31	FUEL				
	CR32	FUEL SYSTEMS ANDFUEL TANKS				
	CR33	GOGGLES				
	CR34	HARMONIC BALANCERS				
	CR35	HEAD PROTECTION				
	CR36	HELMETS				
	CR37	HYDRAZINE				
	CR38	IGNITION SYSTEMS				
	CR39	INTERCOOLERS				
	CR40	INSPECTION				
	CR41	JACK AND JACKSTANDS (TRESTLES)				
	CR42	LATCHES				
	CR43	LAUNCH CONTROL				
	CR44	LIFTING DEVICES				
	CR45	LIQUID OVERFLOW/CATCH TANKS				
	CR46	MAGNAFLUX CERTIFICATES				
	CR47	NITROUS OXIDE SYSTEMS				
	CR48	NIGHT LIGHTING				
	CR49	NUTS AND BOLTS				
	CR50					
	CR51	OIL CONTAINMENT DEVICE (ENGINE)				
	CR52	OIL SYSTEM				
	CR53	PARACHUTES				
	CR54	PARACHUTE RELEASE/RIP CORD				
	CR55	PARACHUTE USE				
	CR56	PINION SUPPORT				
	CR57	PROPYLENE OXIDE				
	CR58	PROTECTIVE CLOTHING				
	CR59	PUSH BARS				

	CR60	REAR-END
	CR61	ROLL BAR/CAGE GENERAL REGULATIONS
	CR62	"ROLL BAR" STRUCTURAL REQUIREMENTS – ALL ENCLOSED VEHICLES
	CR63	"ROLL CAGE" STRUCTURAL REQUIREMENTS – ALL ENCLOSED VEHICLES
	CR64	"ROLL CAGE" STRUCTURAL REQUIREMENTS – DRAGSTERS, FUNNY CARS
	CR65	SAFETY BELTS AND HARNESSES
	CR66	SAFETY HUBS
	CR67	SEATING
	CR68	SHOCK ABSORBERS
	CR69	STARTERS
	CR70	STEERING
	CR71	STEERING WHEELS
	CR72	SUPERCHARGERS
	CR73	SUPERCHARGER RESTRAINTS
	CR74	SUSPENSION
	CR75	THREAD ENGAGEMENT INSPECTION HOLE
	CR76	THROTTLE LINKAGE
	CR77	TOWING RING/HOOK
	CR78	TOW VEHICLE
	CR79	TRACTION CONTROL
	CR80	TRANSMISSION
	CR81	TYRES
	CR82	VENT TUBES/BREATHERS
	CR83	WEIGHT
	CR84	WEIGHT DISTRIBUTION
	CR85	WHEELBASE
	CR86	WHEEL WELLS
	CR87	WHEELS
	CR88	WHEEL STUDS
	CR89	WHEELIE BARS
	CR90	WINDOW NETS
	CR91	WINDSCREENS AND WINDOWS
7.	CLASS REC	GULATIONS:
	7.1	STREET CAR
	7.2	MODIFIED
	7.3	STREET DRAG RACING CLASS REGULATIONS FOR NON-CHAMPIONSHIP EVENTS
	7.4	JUNIOR CLASS CARS REGULATIONS FOR NON-CHAMPIONSHIP EVENTS
	7.5	MOTORCYCLE DRAG RACE RULES
		7.5.1 GENERAL
		7.5.2 <u>SUPERSPORT SHOOTOUT</u>
		7.5.3 SUPERBIKE ELIMINATION
		7.5.4 PRO-STREET
		7.5.5 <u>TOP BIKE</u>
		7.5.6 QUADS
8.	QUALIFYIN	IG, PAIRINGS AND LADDERS

THE BASICS OF DRAG RACING

Drag Racing is an acceleration contest between two vehicles from a standing start, over a measured distance, usually the quarter mile. These contests are monitored by means of an electronic device, referred to as a "Christmas Tree". Two light beams connect to photocells on the track that are wired to the Tree and cross the start line. These light beams ensure that vehicles are positioned evenly. In turn, the beams are connected to electronic timers in the Control Tower. On launching off the start line, each driver/rider activates a timer that stops when the vehicle has reached the Finish Line. It goes without saying that each lane is timed independently of each other.

DB 1					ומווח ח		1181.		
DBI	1.1	ARE THREE IMPORTANT TIMES RECORDED DURING A RUN: Reaction Time: This is the time recorded as the green light is activated and the wheels of the vehicle move out of the stage beam. Reaction times are vital as these are what competitors have at their disposal to win a race. (See Fig.1).							
	1.2	E.T.: stands for Elapsed Time a beam, to when it cuts the finish I							t of the stage
	1.3	Speed (KPH): The third of cours							
		GREEN LIGHT GOES ON FRONT WHEEL OF VEHICLE OUT OF STAGE BEAM AND ELAPSED TIME START FRONT WHEEL CUTS FINISH LINE BEAM AND STOPS ELAPSED TIME							
		1 SEC 2 SEC 3 SEC 4 SI	C 5 SEC	6 SEC	7 SEC	8 SEC	9 SEC	10 SEC	
		REACTION TIME						FIG 1	
DB 2	2.1	TON TIMES Reaction times are vital as they are what competitors have at their disposal to win a race. The reaction time is recorded when the green light is activated to when the front wheels leave the "STAGE" beam. Comments have been received about slower cars always seeming to win. Whether a competitor is competing in handicap or heads-up racing, the quickest is not necessarily the winner. That is why "reaction times" are so important. A competitor may lose, regardless of whether his/her E.T. (Elapsed Time) was good. If the initial "reaction time" was loose, he/she could well lose the race. The faster the "reaction time", the more chance a competitor has of							
		winning.2.1.1Why is a Reaction	Time importa	int?					
		Reaction Times h before the Elapse who crosses the f system to accura calculate the "ove "elapsed time." If	Reaction Times have nothing to do with Elapsed Times (E.T.'s). The Reaction Time is measured before the Elapsed Time counter starts. It should be stated that racing is first and foremost about who crosses the finish line first, irrespective of how quick you were getting there. In order for any system to accurately determine a winner, it uses the "reaction time" and the "elapsed time" to calculate the "overall time". The "overall time" is calculated by adding the "reaction time" to the "elapsed time." If two competitors' race, the one with the lowest "overall time" is the one that crossed the finish line first.						
		In (Fig.2 below), la seconds, howeve fashion. The com moved out of the	In (Fig.2 below), let's assume that we have two vehicles running identical elapsed times of 13.100 seconds, however, this doesn't necessarily mean that they both crossed the line in an identical fashion. The competitor who had the quickest reaction time (Competitor 2) will win as his vehicle moved out of the stage beam before the other (Competitor 1). Remember that the elapsed time only commences when the vehicles move and NOT when the						
		green light goes of							

FIG.2						
COMPETITOR	1 REACTION TIME	ELAPSE	D TIME : 13.100	SECONDS		
L/H LANE	0.155 Secs					
COMPETITOR R/H LANE	2 REACTION TIME	ELAPSE	D TIME : 13.100	SECONDS		
K/H LANE	0.111 Secs					
	0.111 3003		CALCULATIO			
	C	OMPETITOR 1:	0.155	ELAPSED TIME	0VERALL 13.255	
	C	OMPETITOR 2:	0.111	13.100	13.211	
FIG.3						1
COMPETITOR L/H LANE	1 REACTION TIME	ELAPSE	D TIME : 12.980	SECONDS		
L/H LOHE	0.155 Secs					
COMPETITOR R/H LANE	2 REACTION TIME	ELAPSE	D TIME : 13.100	SECONDS		
	0.111 Secs			N.		
			CALCULATIO REACTION	ELAPSED TIME	OVERALL	
		OMPETITOR 1: OMPETITOR 2:	0.155	12.980	13.135	
						ause his "OVERALL ded the difference in
FIG.4]
COMPETITOR	REACTION TIME	ELAPSE	D TIME : 12.980	SECONDS		
L/H LANE	0.155 Secs					
		2000-000-000				
COMPETITOR R/H LANE	2 REACTION TIME	ELAPSE	D TIME : 13.010	SECONDS		
	0.111 Secs					
			CALCULATIO REACTION	ELAPSED TIME	OVERALL	
		OMPETITOR 1: OMPETITOR 2:	0.155	12.980 13.010	13.135 13.121	
	In Fig.4 above. Con	npetitor 2 is the	winner even v	with a slower ela	osed time bec	J cause his "OVERALL
	TIME" was less that	an Competitor	1. The differe	nce in reaction t	ime supersed	led the difference in
	they understand co					ectators alike unless
2.1.2	How do I get a "goo	od" Reaction Ti	me			
		e closer to 0.00	00 the better.	Following on fror	n the sections	ing terms is between s on "STAGING" and lained.
	vehicle reaction to	the acceleratoris is why we have	r. Any good o ive Amber Lig	drag racer won't	wait for the fore the Gree	signal and also the green light to go on en. The Amber lights sual 0.4 seconds.
	The driver should le "STAGE" beam and					DUT" distance on the ed the accelerator.
	each other, or more horse racing. If it w	e for that matter as all about fas	when you co t cars, then a	nsider other forn single lane strip	ns of motorsp would suffice	mpetitors up against ort, athletics or even e, where competitors ist each other to see

		who could cross the finish line first. In the professional categories running in the American NHRA drag series it is not the quickest or fastest car that usually wins but the driver with the best reaction time that supersedes his slower E.T. from that of his opponent. If a competitor is slipping and sliding or spinning their tires from overpowering, or incorrect clutch set-up, it follows that because he didn't adapt to the track conditions correctly, he will be eliminated from the competition. Any track must have reaction times in order to make it fair to all competitors.						
DB 3	STAGIN							
	3.1							
		3.1.1 What is Staging? In order to run a fair drag race using electronic timing equipment, both competitors must start from exactly the same position in each lane. This position is called the "STAGE" beam. The front wheels of the vehicle activate the "STAGE" beam. By moving into the beam and breaking it with the wheels, it activates the "STAGE" light on the Christmas tree. When a vehicle is in STAGE, the vehicle must stand still until the tree is activated to start the race.						
		3.1.2 Prior to activating the "STAGE" beam, competitors need to activate a "PRE-STAGE" beam. "PRE- STAGE" is an indication to the competitor that he is very near to the "STAGE" beam. Each of the beams has a certain amount of "ROLLOUT". "ROLLOUT" is the distance that the wheel is closing in on the beam. The "ROLLOUT" distance can vary slightly from track to track. It is approximately 10" (250mm) long when measured with a 22" diameter wheel.						
		3.1.3 How to Stage: When the vehicle moves forward and breaks the "PRE-STAGE" beam, the light will activate on the Christmas tree. The driver should then stop and slowly move forward until the "STAGE light is also activated. At this point, both lights ("PRE-STAGE" AND "STAGE") are lit. The driver can now remain in this position or move forward until the "PRE-STAGE" light goes out and only the "STAGE" light is on. With only the "STAGE" light on, it means that the wheel has already covered approximately 1/3 of the "ROLLOUT" distance of "STAGE". In other words, the "ROLLOUT" is now reduced to approximately 6"-7" (150mm-175mm). In most cases, competitors leave both lights on. With both lights on, it is called "SHALLOW STAGE". With one light on, it is called "DEEP STAGE". This "ROLLOUT" distance plays a vital role in the reaction time as well as red lighting.						
		3.1.4 If both competitors in each lane have moved through "Pre-Stage" into "Stage" (Re: Solidly, without stage flickering or merely "over staging"), it is automatically assumed that they are committed / ready to do the run. Once this has happened and any one competitor moves out of "Stage" (before amber sequence has started), the system will NOT start. The competitor who first starts a run (i.e.: Once staged solidly and not merely "over staging") before the amber sequence has started, will automatically be excluded (the loser). The second competitor will be the winner; however, it is pointed out that if he/she also started before the amber light sequence, (i.e.: Before race official (tree operator / timekeeper) could manually reset the system) no ET or Speed will be recorded and therefore lane-Choice will be forfeited for the next round. If any dispute arises from the loosing competitor in the above-mentioned instance as to whether he/she has "over staged" or "started the run", the matter will be handed to start line officials, the tree operator/timekeeper, official judges of fact and their assistant judges/observers to make final decision.						
DB4	OFFICI							
	4.1	Events will commence with a few practice rounds in order to test engine performance, traction, wind shear, etc., after which Official Qualifying (OQ) will commence. OQ comprises a minimum of two rounds, during which competitors have two chances to pump up their performances before main racing. Any competitor who fails to do at least one qualifying run, will not be included in the main eliminations. Competitors who red light during this section of the event, still qualify for main eliminations! Qualifying is purely to establish what times your vehicle is capable of running in order to set a dial-in / class time for main racing. National Championship events have the option of a dedicated day for OQ, i.e. OQ on Day 1 and eliminations on Day 2.						
DB 5	MSA LI	CENCE						
	All compe	titors must be in possession of a valid Drag Racing Competition Licence issued by Motorsport South Africa [MSA]. ce must be submitted to the organisers when submitting an entry for the event.						

	DDIVE					
DB 6		R'S / RIDERS BRIEFING				
	It is comp the day's	ulsory for all competitors to attend a Drivers/Riders Briefing. Failure to do so may lead to exclusion from competition, racing or a penalty as determined by the Clerk of the Course.				
DB 7	CONDL	JCT				
	instructio	etitors plus crew are to conduct themselves in an orderly manner. Any disorderly conduct or failure to obey official ns or any breach of these regulations by entrants or their assistants, shall make the entrant concerned liable to a nd/or fine. If the offence occurs during a race, the entrant will face disqualification.				
DB 8		AND FRIENDS				
	are the ra the case aggravate pit crew r	nd friends are not permitted on the start-line. This area is restricted! The only people allowed to be on the start line acing competitors, 1 crew member each and start line marshals/officials. Two crew members are permitted only in of a vehicle equipped with a parachute. Remember that every time the track is closed, it delays proceedings that e the organisers, competitors and public who are there to watch the racing. Please note that the minimum age for members allowed on the start line at an event is 16 years.				
DB 9		NS (HANDICAP)				
	her quick or sticky a 14.4 an will be d improven recorded second (o Therefore	ver / rider nominates his or her own handicap or dial in time. However, no driver/rider may dial-in slower than his / est qualifying time of the day. This is usually done by making two runs during official qualifying to see how slippery the track surface is at the start line and to see how much power the engine is pumping. Suppose a competitor runs id 14.2, knowing that if he beats his "Nominated Time" or "Handicap Time" even by one thousandth of a second, he isqualified. It would be stupid to dial in at 14.4. It would be just as dangerous to dial in at 14.2 because any nent in the conditions such as traction, wind, and temperature or engine power could result in a better run being , and disqualification. So, the safe thing to do is to give himself a safety margin of approximately one tenth of a depending on what type of vehicle and / or driver consistency, and / or track conditions, and / or vehicle consistency). e nominate 14.2 less 0.1 = 14.1 seconds as a "Dial-in" time.				
DB10		TION OF COMPETITION CLASS				
	the comp qualifying	npionship events the handicap start system will not be used. Championship events will be run heads up based on tetition classes. Each driver / rider nominates his or her competition class upon entering an event. If during official the driver / rider records two or more runs quicker than minimum ET of the class nominated, the competitor will be cally moved into the faster class.				
DB11		NE COMPETITOR LEAVES THE START LINE BEFORE ANOTHER?				
DB12	Let's say one competitor dialed in a 12.2, the other a 14.2. If they are matched against each other in a handicap start rac the slower competitor will get a two second head start. This is built into the control of the Christmas tree by the Control Town officials. If they each run according to their dial-in times, there should be a dead heat at the end. This of course, rare happens as one competitor could go faster than his handicap and get disqualified, or one launches too early and receives Red Light, or one has a better reaction time than his opponent. PENALTIES					
	A compe	titor may be excluded /fined by the Clerk of the Course for:				
	12.1	Failing to report to the start line on time.				
	12.2	Crossing the center line.				
	12.3	A Red-Light start.				
	12.4	Breaking out of his/her bracket.				
	12.5	Failure to attend Driver's/Rider's Briefing.				
	12.6	Depositing foreign matter including debris or oil onto the strip or staging lanes, except in the case where an accident has occurred.				
	12.7	Unsportsmanlike behavior.				
	12.8	Behavior that causes a safety hazard to other competitors and/or spectators.				
	12.9	Driving dangerously. (This includes crew vehicles).				
	12.10	Driving excessively fast on the 'return road' and pit area. This includes crew vehicles. (Speed limit 30Km/h)				
	12.11	Being suspected or seen to be consuming alcohol, regardless of the amount.				
	12.12	Behaving in a manner that could prejudice MSA.				
	12.12	Disregarding a specific instruction from an official.				
	12.10	Starting the run before the "Amber Light" sequence has started.				
	12.14	Failing to report to the Race Control in respect of a vehicle breakdown before the start of main racing.				
	12.15	Failure to sign attendance register after drivers/riders briefing.				
	12.17 12.18	Driver/rider leaving car/bike unattended in the pit lanes or Line-up area. Depositing foreign matter including debris or oil onto the strip, staging lanes or pits, except in the case where an				
		accident has occurred.				
	12.19	Being suspected or seen to be consuming alcohol, regardless of the amount before or during the event. (Alcohol tests may be requested by Officials as/when required to do so.) (Refer to GCR118 and GCR122.vii)				

DB13	THE TI	MING EQUIPMENT			
	13.1	This has been constructed to ensure reaction and elapsed times to a thousandth of a second and terminal speed to a tenth of a KPH. The start will be by light sequence provided by Christmas tree format with the following specifications: Approach Pre-stage Stage Countdown Go Red Light Approach, pre-stage, and track lights are controlled by the vehicle. Once in stage, the countdown will start, will start running down from 30 seconds. If the countdown has begun and the adjacent lane has not staged, the sequence lights will commence running down. The standard sequence will be 3 AMBER LIGHTS is variable from 0.3 between lights to 0.5 seconds. GREEN IS FOR GO! A Red light is caused by either rolling forwards from stage during the sequence lights. This is referred to as "Amber Gambling", i.e., trying to leave the line too early. However, when a Red Light is displayed, the run must be completed. THERE IS NO RECALL ON RED LIGHT, JUMP START OR FAILURE TO LEAVE ON THE GREEN LIGHT.			
	13.2	MSA drag racing rules do not permit rolling starts. To lay claim to any recorded time, the organiser(s) must comply with the rule.			
DB14	DRAG	RACING DISTANCE			
	All street racing venues, MUST run 1/8 mile. On application venues who wish to run longer distances will be considered, considering elements of safety and track conditions and design. All circuit racing venues can be run either on 1/8 mile or ¼ mile. MSA reserve the right to restrict circuit racing venues to a 1/8 mile if stopping distances, width and the condition of fences or barriers poses a safety risk.				

CLUB AND REGIONALCHAMPIONSHIP DRAG RACING CATEGORIES AND CLASSES

INTERPRETATION OF REGULATIONS AND SPECIFICATIONS

In interpreting Motorsport regulations and specifications "what is not specifically permitted is disallowed" is the normal concept in keeping with the French regulations on which all motor sporting regulations are based. (Refer GCR 226)

- A. With effect from 2025 the respective championship and challenge competitions will be based on Elapsed Time (ET) classes. These classes will have a minimum and maximum permissible ET. Vehicles on the other hand will fall into a category, which will govern the applicable construction and safety requirements of that vehicle. Therefore, vehicles from multiple categories will be permitted to enter any championship and will compete in classes based on the ET run during dial-in / qualifying sessions.
- B. The following Club and Regional Championships, can be run under approved SSRs:

Regional Championships

- Eastern Province (EP) Regional Drag Racing Championship Algoa Motorsport Club (AMSC)
- Kwa-Zulu Natal (KZN) Regional Drag Racing Championship
- Gauteng (GP) Regional Drag Racing Championship –
- ↔ Western Province (WP) Regional Drag Racing Championship

Club Championships

- o Algoa Motorsport Club (AMSC) Club Drag Racing Championship
- Tarlton Motorsport Club (TMSC) Club Drag Racing Championship

Any MSA Affiliated club or promoter can organize and run a club championship, by compiling a set of SSRs which must be submitted to MSA for approval.

Please note that all competitors wanting to participate in any, Regional and Club Championship must be in possession of the appropriate and valid Motorsport South Africa Drag Racing Competition License.

C. Each venue hosting events for, Regional and Club Championships must have timing equipment suitable for 1/8 mile and ¼ mile racing in order for these categories to work. It is optional for the venue to have timing equipment capable timing handicap style racing.

Tarlton Motorsport Club (TMSC)

D. Any MSA affiliated organization can apply for approval via the respective MSA National Working Group or Regional Committee to host Regional and/or Club Drag Racing Championships. The competitions will have to be run under the standardized Regional and Club Championship Standing Supplementary Regulations. At any given time only one affiliated club/organization per MSA Region may host or convene a Regional Championship. The aforementioned club/organization may elect to host the Regional Championship at multiple MSA accredited circuits of their choosing, subject to approval by the MSA National Working Group and relevant MSA Regional Committee.

1. MINIMUM ROUNDS AND STARTERS CARS AND BIKES

With reference to GCR 230 of the MSA handbook the following criteria will apply in respect of the Championship categories.

- 1.1 All MSA Regional and Club Drag Racing Championships for cars and motorcycles will consist of a minimum of 4 rounds and 6 starters per class each, with all events to count, subject to meeting the minimum requirements.
- 1.2 For Regional and Club championships, refer to the relevant Regional and Club SSRs.
- 1.3 To be classified as a finisher, the competitor must have:
 - Completed official qualifying
 - Completed the elimination rounds of the respective championship irrespective of whether the competitor finished in the points position or
 - Completed at least three (3) timed runs in a championship based on best ET. Jump starts (JS) and Did Not Finish (DNF) timed runs are not regarded as a completed / finished run.
- 1.4 To be classified as a class or overall championship winner, the competitor must have participated in at least fifty percent (50%) of the events of the respective, Regional and Club Championships.

1.4.1 Vehicle Substitutions – In all, Regional and Club Championships

A competitor is allowed a vehicle substitution at an event on the following terms and conditions:

- i. Up to the end of qualifying
- ii. The competitor must apply with the Stewards, for a vehicle substitution
- iii. The substituted vehicle must be scrutineered and passed by the Scrutineer prior to be allowed to participate
- iv. A vehicle cannot be substituted at an event after the completion of qualifying i.e., a competitor cannot pass scrutineering or participate in official qualifying, have a vehicle problem, and then apply for a substitution.
- v. Vehicle substitutions will only be considered if the vehicle that was used at the event was damaged or broken to an extent that it is no longer safe to operate or cannot be practically repaired prior to the completion of official gualifying.
- vi. The substituted vehicle must compete in the same class as the original vehicle
- vii. All previous event times for vehicles to be replaced are voided and vehicle may be restricted
- viii. Changes must be made and driver / rider must enter and re-qualify during the normal schedule as posted for the event provided the vehicle is suitable for class as the one that is replaced
- ix. Qualifying run points will only be awarded for number of runs done with replacement vehicle and ranking points awarded for E.T.'s recorded with the replacement vehicle

2. CLASSES

2.1 Cars

Competition Classes are purely for grouping vehicles into a bracket for competition purposes. These classes have no bearing in terms of the safety features required in a vehicle. For example, you can have a True Street Car and a Modified Car compete in class J (ET between 13.000 – 13.999 seconds). The safety equipment required for the modified car will be different to those of the street car.

2.1.1 Competition Format A – Time Brackets No Handicap - Any Car with a Quarter (1/4) Mile ET

Class	Designation	ET ¼ mile
Extreme Competition (Extreme Comp)	A (ECA)	(<) 7.999 seconds
Pro Competition (Pro Comp)	B (PCB)	8.000 – 8.499 seconds
	C (PCC)	8.500 – 8.999 seconds
	D (PDC)	9.000 – 9.499 seconds
Super Competition (Super Comp)	E (SCE)	9.500 – 9.999 seconds
	F (SCF)	10.000 - 10.499 seconds

	G (SCG)	10.500 - 10.999 seconds
Super Street	H (SSH)	11.000 - 11.999 seconds
	I (SSI)	12.000 - 12.999 seconds
Street	J (SJ)	13.000 – 15.999 seconds

2.1.2 Competition Format B - Time Brackets with Handicap - Any Car with a Quarter (1/4) Mile ET

Class	ET ¼ Mile	Dial In	Maximum Handicap
Top Car (TC) – Exhibition Only	Quicker than 6.700 seconds	N/A	N/A
Extreme Competition (EC)	6.700 – 7.500 seconds	MIN 6.60 – MAX 7.50	0.5 second
Pro Competition Class A (PCA)	7.500 - 8.250 seconds	MIN 7.40 – MAX 8.25	0.85 seconds
Pro Competition Class B (PCB)	8.000 – 9.000 seconds	MIN 8.00 – MAX 9.00	1.0 seconds
Super Competition Class A (SCA)	8.700 – 10.000 seconds	MIN 8.60 – MAX 10.00	1.40 seconds
Super Competition Class B (SCB)	9.500 - 11.000 seconds	MIN 9.40 – MAX 11.00	1.60 seconds
Modified Street Class A (MSA)	10.400 - 11.800 seconds	MIN 10.30 – MAX 11.80	1.5 seconds
Modified Street Class B (MSA)	11.000 - 12.500 seconds	MIN 10.90 - MAX 12.50	1.6 seconds
Street Class A (STA)	11.500 - 13.500 seconds	MIN 11.40 – MAX 13.50	2.1 seconds
Street Class B (STB)	12.500 - 15.000 seconds	MIN 12.40 – MAX 15.00	2.6 seconds

2.1.3 Competition Format A - Time Brackets No Handicap Any Car with an Eighth (1/8) Mile ET

Class	Designation	ET ¼ mile	ET ¹ /8 Mile
Extreme Competition (Extreme Comp)	A (ECA)	(<) 7.999 seconds	(<) 5.02
Pro Competition (Pro Comp)	B (PCB)	8.000 – 8.499 seconds	5.020 - 5.350 seconds
	C (PCC)	8.500 – 8.999 seconds	5.351 – 5,670 seconds
	D (PCD)	9.000 – 9.499 seconds	5,671 – 6.000 seconds
Super Competition (Super Comp)	E (SCE)	9.500 – 9.999 seconds	6.001 – 6.330 seconds

**If the circuit is not suitable, the following classes of vehicles will be restricted to solo runs over a quarter (1/4) mile and can only race heads-up over an eighth (1/8) mile. The determination of whether vehicles in class A – E will run heads up or solo over an eighth (1/8) and quarter (1/4) mile will be made by the respective circuit based on the ET above and terminal/exit speed of the vehicle and specified in the respective, regional or club SSRs. These determinations are subject to approval by the MSA National Safety Panel.

*** All grade B and C and D drag racing venues or street venues will limit all vehicles depending on the venue as prescribed by the Safety Panel after venue inspections and consultation with the National Drag Racing Working Group and MSA MANCOM. The above permission may be changed at any time during the season should the MSA National Safety Panel deem the venue unsafe on a matter.

2.2 Bikes

2.2.1 Competition Format A – Time Brackets No Handicap - Any Bike with a Quarter (1/4) Mile ET

Class	Designation	ET ¼ mile
Professional Bikes (Pro Bikes)	ĻΚ	(<) 9.499 seconds
Street Bikes	ΚL	(>) 9.500 seconds

2.2.2 Competition Format B - Time Brackets with Handicap - Any Bike with a Quarter (1/4) Mile ET

Class	ET 1/4 Mile	Dial In	Maximum Handicap
Top Bike (TB)	Quicker than 7.500	N/A	N/A
Professional Bike (Pro Bike)	7.500 – 9.000 seconds	MIN 7.40 – MAX 9.00	1.6 seconds
Street Bike	8.800 - 11.000 seconds	MIN 8.70 – MAX 11.00	2.3 seconds

2.3 Dial Ins - Competition Format B

Class Car	Minimum	Maximum
Top Car / TC	Heads Up Only	Heads Up Only
Extreme Comp / EC	6.60	7.50
Pro Comp / PCA & PCB	7.40	8.25
Super Comp / SCA & SCB	8.00	11.80
Modified Street / MSA & MSB	10.30	12.50
True Street / TSA & TSB	11.40	15.00
Class Bike	Minimum	Maximum
Top Bike	Heads Up Only	Heads Up Only
Pro Bike	7.40	9.00
Street Bikes	8.70	11.00

2.3.1. Note for safety reasons and excessive speeds attained, maximum handicap will apply as follow:

2.3.2. The quickest vehicle's dial-in will be accepted and slowest vehicle in the category may not dial-in slower than 0.5 second from quickest dial-in time.

- Top Car NO Handicap applied, Heads-Up Racing ONLY
- Extreme Comp A maximum handicap of 0.5 second will be applied.
- Pro Comp A A maximum handicap of 0.85 second will be applied.
- Pro Comp B A maximum handicap of 1.0 second will be applied.
- Super Comp A A maximum handicap of 1.4 seconds will be applied.
- Super Comp B A maximum handicap of 1.6 seconds will be applied.
- Modified Street A A maximum handicap of 1.5 seconds will be applied.
- Modified Street A & B A maximum handicap of 1.6 seconds will be applied.
- Street A A maximum handicap of 2.1 seconds will be applied.
- Street B A maximum handicap of 2.6 seconds will be applied.
- Top bike NO Handicap applied, Heads-Up Racing ONLY
- Pro Bike A maximum handicap of 1.6 second will be applied.
- Street Bike A maximum handicap of 2.3 seconds will be applied

2.3.3. Competitors are allowed to dial a Maximum time of 1% slower than their best qualifying run.(No limit for dialling quicker)

2.3.4. Maximum time of 30 minutes in each class will be allowed for dial-in times to be entered by all competitors after their final qualifying run in that specific category. Failure to do so will result in a competitor being dialled in automatically by 1% quicker than their best qualifying run.

3. CAR CATEGORIES

3.1 The following are car categories for Regional and Club Championships events to be held at venues graded and approved for Regional and Club Championship events.

Vehicle categories will have no bearing or limitation in terms of the class that a vehicle will be permitted to compete in. Vehicle categories will only be used to impose the minimum safety requirements. For example, a True Street Category vehicle can run in the same class as a Modified Category vehicle, i.e. ET between 13.000 – 15.999 but the vehicle safety requirements for the modified vehicle and true street vehicle will vary as per the category requirements. ET and exit speed of a vehicle irrespective of class will determine the requirement for a parachute as per CR53.

3.1.1 Cars

Category	Designation
True Street	This category will apply to all foreign and domestic Original Equipment Manufacturer (OEM) production type automobiles, and SUVs and LDVs. All vehicles must be street driven and drivers must carry a valid South African vehicle registration and licensing certificate (disc). For a vehicle to be categorized in the True Street Car Category, the vehicle must pass all stipulations of the South African National Road Traffic Act 93 of 1996 and retain all OEM safety features, therefore making it legal to operate on a public road.
	This category will restrict the Elapsed Time (ET) of participating true street vehicles as follows:
	 2014 – Current OEM model-year production (EURO NCAP 5 RATED) enclosed vehicles are permitted to run no quicker than 9.000 second-quarter mile (*5.65 eighth mile) and/or faster than 240 kph, without the need for a roll-cage.

	 2008 – 2013 OEM model-year production (EURO NCAP 5 RATED) enclosed vehicles are permitted to run no quicker than a 10.000 second-quarter mile (*6.40 eighth mile) and/or no faster than 216 kph, without the need for a roll-cage. Pre 2008 OEM model-year production enclosed vehicles are permitted to run no quicker than a 12.000 second-quarter mile (*7.70 eighth mile) and/or no faster than 190 kph, without the need for a roll-cage. Convertibles quicker than 13.499 seconds-quarter mile (*8.25 eighth mile) and T-tops quicker than a 11.499 second-quarter mile (*7.35 eighth mile) must meet the rollbar and roll-cage requirements.
Modified Car	This category will apply to all four wheeled moderately, and highly modified production
 Modified Street Car 	model vehicles and professionally modified vehicles designed only for drag racing. For
 Modified Race Car 	modified production bodies the basic standard appearance is maintained, engine,
	driveline, chassis etc., may be altered, modified, as outlined in the category requirements.
	These vehicles would typically not be able to pass all stipulations of the South African
	National Road Traffic Act 93 of 1996 and would not retain all OEM safety features, thus
	would not be legal to drive on a public road.

3. BIKES CATEGORIES

4.1 The following are bike categories for Regional and Club Championship events to be held at venues graded and approved for Regional and Club Championship events.

4.1.1 Motorcycles

Category	Designation
Street Bikes	This category will apply to all foreign and domestic Original Equipment Manufacturer (OEM) production type motorcycles. All motorcycles must be street driven and riders must carry a valid South African vehicle registration and licensing certificate (disc). For a motorcycle to be categorized in the Street Bike Category, the motorcycle must pass all stipulations of the South African National Road Traffic Act 93 of 1996 and retain all OEM safety features, therefore making it legal to operate on a public road.
 Supersport Shootout Superbike Elimination Pro-Street Bikes Top Bike Quads 	This category will apply to all two wheeled moderately, and highly modified production model vehicles and professionally modified vehicles designed only for drag racing. For modified production bodies the basic standard appearance is maintained, engine, driveline, chassis etc., may be altered, modified, as outlined in the category requirements. These motorcycles would typically not be able to pass all stipulations of the South African National Road Traffic Act 93 of 1996 and would not retain all OEM safety features, thus would not be legal to drive on a public road.

CHAMPIONSHIP FORMAT AND POINT SCORING

All Championships / Competitions / Challenges will award points to competitors finishing 1st to 4th in all of the respective classes.

1. CHAMPIONHSHIP FORMAT

Regional and Club Championships will comprise of a minimum four (4) events / rounds.

Each event / round will consist of 6 sessions:

- 2 x Qualifying sessions
- 4 x Competition sessions

Competition Format A (Time Brackets No Handicap)

Session 1 - Qualifying - Heads-up per class

Session 2 - Qualifying - Heads-up per class

PAIRING - Competitors will be ranked by best ET from Session 1 and Session 2 using the Sportsman's ladder

Session 3 - Eliminations - Heads-up per class

PAIRING – Winners will advance to the next round. Based on the size of the field the appropriate sportsman's ladder will be used until 8 competitors remain.

Session 4 - Quarter Final - Heads Up Racing for top 8 winners of Session 3

PAIRING - Winners from Session 4 advance to the Semi-Final

Session 5 - Semi-Final - Heads Up Racing for top 4 winners of Session 4

PAIRING – Winners from Session 5 advance to the Final and Losers from Session 5 will compete for 3rd place

Session 6 – Finals – Heads Up Racing for top 2 winners of Session 5 for 1st and 2nd place and losing semi-finalists for 3rd place

Competition Format B (Time Brackets With Handicap)

Session 1 - Qualifying - Heads-up per class

Session 2 - Qualifying - Heads-up per class

PAIRING - Competitors will be ranked by best ET from Session 1 and Session 2 (Even field). All odd numbers out

Session 3 - Eliminations - HANDICAP racing for ALL Qualifiers evenly paired

PAIRING – Winners from Session 3 (6 / 8 (max) competitors advances to session 4)

Or Winners from Session 3 (TOP 4 competitors advances to session 5)

Session 4 - Quarter Final - HANDICAP racing for top 6/8 winners of Session 3

PAIRING - Winners from Session 3 or 4 (TOP 4)

Session 5 - Semi-Final - HANDICAP racing top 4 ALL CLASSES

PAIRING – Winners from Session 5 together for 1st and 2nd PLACE, Losers from Session 5 together for 3rd PLACE

Session 6 - Finals - HANDICAP racing for TOP 3 IN CLASS

2. AWARDING OF POINTS

Points will be awarded from 1st place to 4th place. When points are awarded from 1st to 4th place it will be in any championship or competition when eliminations are done, i.e. quarter finals, semifinals and a final, points will be awarded from 1st to 4th.

In all Regional and Club Championships using elimination rounds to determine a winner in the respective class, points will be awarded as follows:

Semi-final and Finals Points

In the Semi-final and finals of each round, the winning competitor in each class will score 25 points, 2nd place 20 points, 3rd place 15 points and 4th place 10 points.

Position/Place	Points
1 st Place	25
2 nd Place	20
3 rd Place	15
4th Place	10

The winner of the final will finish in 1st place and the losing finalist will finish in 2^{nd} place. The two losing semi-finalists will race heads up to determine 3^{rd} and 4^{th} place. The winner of this tie will finish 3^{rd} , and the loser will finish in 4^{th} position/place.

2.1 Bonus Points

As an incentive to grow participation in Regional events, participation points will be awarded as follows:

2.1.1 Attendance Points - 5 (Five) attendance points will be awarded for a competitor that has attempted to start a run and/or burnout in the burnout box in the qualifying session

2.1.2 Completed Qualifying Run Points - Points will be awarded for each completed qualifying run, without penalty:

Qualifying Runs	Points
1 Run	1
2 or more Runs	3

2.1.3. Qualifying Ranking Points

Qualifying Ranking	Points	Qualifying Ranking
Top Qualifier	8	Top Qualifier
2 nd Qualifier	7	2 nd Qualifier
3 rd Qualifier	6	3 rd Qualifier
4th Qualifier	5	4th Qualifier
5 th and 6 th Qualifier	4	5 th and 6 th Qualifier
7th and 8th Qualifier	3	7th and 8th Qualifier
9th to 12th Qualifier	2	9th to 12th Qualifier
13th to 16th Qualifier	1	13th to 16th Qualifier

2.1.4 Elimination Session Points

Elimination Points	Points
First elimination session losers, without penalty	5
Second elimination session losers, without penalty	8

Illustration / example of points:

The maximum number of points awarded for s single round in the Regional and Club Championships will be as follow:

Event Points Breakdown	Points
Attendance Points	5
Completed Qualifying Runs (all sessions) Points	3
Qualifying Ranking Points (top qualifier)	8
1st Place Points	25
Total Points Awarded	41

**NO Points will be awarded for a "No Show" in the Elimination Rounds.

***Points will be awarded for "Breakdown" losers, but the vehicle must have appeared in the Pre-Race Line-Up area.

3. REGIONAL AND CLUB CHAMPIONS AND CLASS WINNERS

- I. Competitors will accumulate points from each round of the Regional or Club Championships in the respective classes that they participate in. A competitor can accumulate points in multiple classes in the season. If the competitor competes in multiple classes over the season the points will not be added together. Points attained in different classes will be recorded separately but not added together.
- II. The competitor with the most points in a specific class at the end of the season will be deemed the overall winner of the class designation, the competitor with the second most points and third most points will be placed second (2nd) and third (3rd) in class respectively. 4th
- III. In case of a draw at the end of the final round of the championship, the following will apply:
 - Most Event Wins
 - o IF (i) above still equal, Most Runner-Up wins
 - IF (ii) above still equal, Most 3rd place wins
- 3.1.1 Regional and Club Champions will be declared as follows:

Cars

- Regional /Club Champion Extreme Competition (EC)
- Regional /Club Champion Pro Competition (PC)
- Regional /Club Champion Super Competition (SC)
- Regional /Club Champion Modified Street (MS)
- Regional /Club Champion Street (ST)
- Motorcycles
 - Regional /Club Champion Pro Bikes (PB)
 - Regional /Club Champion Street Bikes (SB)
- In determining the Regional and Club Champions the competitor with the most points in the respective class will be declared the Champion.
- The minimum number of starters in a class will be 6 vehicles. If there are less than 6 vehicles in any specific class, that class will not qualify for a Regional Champion but will qualify for class designation winners.
 - 3.1.2 Class designation winners will be declared as follows:

Cars

- Extreme Competition (EC)
- Pro Competition (PCA)
- Pro Competition (PCB)
- Super Competition (SCA)
- Super Competition (SCB)
- Modified Street (MSA)
- Modified Street (MSB)
- Street (STA)
- Street (STB)

Motorcycles

- Pro Bikes (PB)
- Street Bikes (STB)
- In determining the Class designation winner, the competitor with the most points in the respective class designation will be declared as the class designation winner
- The minimum number of starters in a class designation will be 6 vehicles. If there are less than 6 vehicles in any
 specific class designation, that class designation will not qualify for an overall class designation winner, but
 competitors will qualify for prizes on the day.
- The prizes on the day will be handed to 1st, 2nd, and 3rd place finishers in the respective classes, subject to compliance with the above.

2.1.3 Number of Events to Count

In terms of GCR 234 (ii) "For the championship to be concluded and Regional Champions declared, at least 50% (rounded up) plus one of the events originally inscribed on the respective regional calendars must have taken place and been scored" Therefore in the context of the Regional Championship should less than three (3) rounds be held and scored of any of the regional championships during the season, the championship, may be declared null and void by the Controllers.

4. MULTIPLE ENTRIES

A competitor may not enter more than one vehicle in any championship or competition, either in the same class or different classes.

5. MINIMUM CRITERIA OF AWARDING A ROUND LOSER

Will be if both competitors appeared on the line with their vehicles and were able to take the light under their own power, and / or vehicles breaking down during start-up to approach the start line / burnout area.

6. SEPARATION OF TIES

If at the conclusion of the season if a tie exists (for the top 3), it shall be resolved as follows. If after step one is followed a tie still remains, additional steps are to be followed until a tie is broken:

6.1 Driver / Rider with most event (with same status where tie exists) wins. (Depending in which class the points are tied.)

6.2 Driver / Rider with most Runner-ups (with same status where tie exists) finishes. (Depending in which class the points are tied.)

6.3 Driver / Rider with most 3rd place (with same status where tie exists) finishes. (Depending in which class the points are tied.)

6.4. Should the tie still exist, the driver / rider with the best overall reaction time for the season. (Depending in which class the points are tied.)

6.5 Should the tie still exist, the driver / rider with the best average reaction time, calculated by averaging the driver's / rider's best reaction time from each round that wins the title. (Depending in which class the points are tied.)

7. EVENT CANCELLATIONS (RAIN AND/OR OTHER REASONS)

7.1 Should it so happen that any event is cancelled completely, no points will be awarded to any competitor.

7.2 Should an event be started and not be completed and without running on a Re-Scheduled rain date, each category will score points up to successful completion of an elimination round by all competitors in each individual category. (Re: some categories may have progressed further than other categories.).

7.3 Should any event get Re-Scheduled to a "Rain Date"; no points will be awarded to any competitor for the date that gets Re-Scheduled. Points will only be awarded for the Re-Scheduled event on the rain date.

D R A G	RACING RULES, REGULATIONS AND SPECIFICATIONS
DR 1 VEHIC	LES – GENERAL
1.1	All vehicles must satisfy the Scrutineers of the meetings as to their suitability for Racing, considering all details of their design and construction. In addition, it must be evident, both from a static examination from its behavior on the track, that a vehicle will present no hazard to the driver / rider or to the other competitors or to spectators.
1.2	Appearance: Vehicles participating in Drag Racing events must be presentable in appearance at all times. At any sanctioned event, the Scrutineers may reject vehicles that are considered improperly prepared.
1.3	The appearance of personnel attending contestant vehicles is equally important and each member of a participant crew must be fully attired including shoes when present in the staging, starting and competition areas of the

	racetrack. It is the Chief Start Line Marshal's responsibility to police the appearance of crewmembers that venture
	into the abovementioned areas.
1.4	Component Substitution: Any component of a vehicle may be replaced (except the chassis) during competition provided that the new components are inspected and passed by the scrutineer if liable to alter that vehicle's class or affect its safety. The onus is on the competitor to be ready on time for each run. The vehicle must still comply
15	with regulations of its originally entered class at that event.
1.5	Ground Clearance: All vehicles competing are required to maintain a minimum of 75mm ground clearance, measured from the front of the vehicle to 300mm behind the center line of front axle and 50mm for the remainder of the car. Wheelie bars are exempt. All vehicles will be checked for correct ground clearance during scrutineering. Subsequently, any staging problems should be the fault of the start line equipment and if a problem occurs, both vehicles should be backed out and the fault investigated. If the fault is found to be with one of the vehicles, it will be excluded immediately.
1.6	Front Overhang: The maximum front overhang, measured from the center of the front axle to the furthermost edge of the front bumper, inclusive of any extension plates (see note below), spoilers, lips, etc. Modified, Funny cars, Dragsters, Competition Altered, and all other open wheeled vehicles (cars) will have a maximum of 40" (1016mm) and all door cars 45" (1143mm) NOTE: Extension plate will be permitted and have a maximum length of 4" (102mm). Extension plates must form
	 part of the bumper/body, it must be of a permanent nature (RE: Not easily removable or interchangeable), non-adjustable and have a rigid construction preventing flex. a) Front end body/fenders may be extended on Altered class only.
	b) Extension plates allowed on Altered and Pro Street class cars only.
	: GENERAL REGULATIONS APPLICABLE TO ALL COMPETITORS
2.1	In the interest of safety, before a vehicle proceeds onto the strip, a check shall be made that the scrutineers have passed it.
2.2	Only the entrant shall drive a vehicle onto the strip during pre-race practice and the racing, except with the specific permission of the Clerk of the Course.
2.3	No vehicle may be driven or pushed in any direction, other than in the direction of the course, either during unofficial or official practice sessions or during a race meeting. Vehicles may be reversed (backed up) after a burnout.
2.4	Any driver / rider stopping on the strip or its verges, whether voluntarily or involuntarily (such as through stalling the vehicle), shall remain there until it is safe to move as directed by an official.
2.5	Any driver / rider who refuses to voluntarily reduce speed or stop in the event of his/her vehicle not handling properly (i.e., excessive drifting of the vehicle towards the centre or edge of the track), or any driver/rider who "fishtails" or weaves with undue regard to the safety of himself/herself, other competitors and/or spectators renders himself/herself liable to disciplinary action.
2.6	If any vehicle at any event spills a foreign substance on the track, that requires clean-up and takes longer than 15 minutes, the competitor will be liable for a fine of R2500-00. If the delay is 1 hour and longer or the track is closed, a fine of R5000-00 will be imposed on the competitor.
DR 3 BURNO	
3.1	A maximum of two burnouts are allowed. Only vehicles equipped with racing slick-type Tyres are permitted to cross the start line. Maximum time for this will be two minutes, of which the period starts when the first burnout to be performed by either competitor commences.
3.2	At the end of the two-minute period or once a vehicle is staged, the remaining vehicle will have a maximum of 30 seconds to stage. It will be the Chief Start line Marshal's responsibility to enforce these requirements unless by
3.3	prior arrangement with the parties involved. Burnouts must be of an UNASSISTED NATURE, i.e., no holding of vehicles under any circumstances at any track. It will be the Chief Start line Marshal's responsibility to police the burnout procedure and to halt any handling of vehicles.
3.4	Crossing the centre line during a burnout is not an automatic exclusion unless such action is deemed by the start line officials to be careless or hazardous to the vehicle in the opposite lane.
DR 4 ALTERN	
4.1	In order to ensure paired competition during all elimination series, the following rules shall apply. Where an elimination bracket needs to be filled, an alternate or alternates shall be drawn from non-qualifiers in order of their qualifying times. The use of alternates is restricted to the first round of Racing and no substitutes will be brought in after the first round of Racing other than in Top Eliminator.
4.2	If an elimination contestant is unable to complete the following round, they must notify race control as soon as possible so that seeding sheets can be adjusted accordingly and ensure paired runs continue.
DR 5 STAGIN	G
5.1	Once a vehicle reaches the front of the staging lanes for a run it must be prepared to fire and race. The onus is on the competitor to make sure both he and his opponent are ready for each new run. If a competitor is on the start line and his opponent does not appear within the prescribed two minutes that competitor must then make

- 5.2 If a competitor notifies both his opponent and race control that he is not ready, the pairing can be slotted in at the bottom of the present elimination's round. However, if all races have been completed in the respective elimination round, a bye run, directly after the last pairing is required by the racer who is ready, and his missing opponent is eliminated.
- 5.3 In order to be a legitimate race winner, a contestant's vehicle must start and self-stage. This rule also applies to BYE runs. It is not allowed to push start a vehicle or to push stage a vehicle. Staging must be done under the vehicle's own engine power in the direction of the Racing.

			engine power in the direction of the Racing.
DR 6		FERENCE	BETWEEN BYE RUNS AND SOLO RUNS
	6.1	Bye runs	
		(a)	Bye runs are compulsory and are awarded in progressive order, e.g., if a field produces three Bye runs, the Top Qualifier will receive the first Bye, the No. 2, the second, and the No. 3, the third. On an uneven field, the Top Qualifier always receives a Bye run.
		(b)	The breakout rule does not apply during a Bye Run.
		(c)	A driver/rider that gets a red light with any Bye Run will be excluded, however, if a situation arises where there are three competitors in a semi-final and the competitor that has the Bye-Run awarded for that round of competition gets a Red Light, he will be awarded 2 nd Place and the winner of the other run in the same semi-final will be awarded 1 st Place and the loser of the same run, 3 rd Place.
		(d)	If a competitor crosses the boundary line on a Bye-Run run, the elapsed time is voided for lane choice determination.
	6.2	Solo Runs	
		(a)	If one competitor fails to report to the start line, the other competitor will perform a solo run. This is not a Bye Run; merely the result of a "no show" and the breakout and red-light rule will apply.
		(b)	If a competitor crosses the boundary line on a solo run, the elapsed time is voided for lane choice determination.
	6.3	No Shows	
			n the competitors to ensure they are ready for each new run. If a competitor is on the start line and does not appear within the prescribed two minutes, that competitor must then make use of the 30
	6.4	Crossing the	Centre Line
		(a)	In case of any competition (not qualifying) run and two vehicles competing, crossing the centre line will result in immediate disqualification. If both crosses the centre line, the 1 st or worst rule applies
		(b)	During a BYE or SOLO run, crossing the centre line does not constitute an infraction or elimination from competition.
		(c)	During a BYE run or SOLO run and crossing the centre line will be subject to the following:
			 Competitor is to correct the vehicle and revert back to and complete the run at finish line in the same lane as run was started.
			 Elapsed time is voided for lane choice determination for next round of competition.
			It should be noted that during a BYE or SOLO run, crossing the centre line does not constitute an infraction. However, if this occurs, i.e., if the competitor started out in the left-hand lane and crosses the centre line, the competitor must correct the vehicle and revert back to and complete the run in the left-hand lane before the finish line. In qualifying, crossing or touching the centre line, the run becomes null and void
	6.5	Re-runs (a)	A Re-run will only be awarded to a competitor in extreme circumstances such as timing equipment malfunction and/or race control error and/or <u>if time permits</u> and/or foul by opponent resulting in no result on the same run
		(b)	The Clerk of the Course reserves the right to issue a re-run to 2 (two) competitors in the event of a race control error or equipment malfunction due to various reasons, i.e. power failures, etc.
		(c)	If a dial-in error was made by the Tower and was the cause of the competitor losing with the incorrect dial-in time, <u>both</u> competitors can agree on a re-run, or if both competitors don't agree to a re-run, the winner will be determined by means of a calculation, utilizing correct dial-in times, the difference in handicap, the reaction times and the ET's to establish who was first over the line.

		(d)	A re-run/calculation will only be agreed to if the competitor concerned has reported the error immediately after the run, before the field progresses to the next round.
DR 7	BREAK	OUT RULE	
	7.1	rule is enforce who infringes Points/remune	empetitors from nominating a "soft" dial-in time and then running quicker in competition, a breakout ed which eliminates a racer running below their nomination. If both competitor's breakout the racer is by the largest margin is the loser and the one who infringes by the least is the winner. eration will be allotted as if both competitors legitimately won/lost the race concerned.
DR 8			MPLES OF GROUNDS FOR EXCLUSION
		nuneration up u "First" or "Wor The ideal outo of an infractio	come of any race is to have one winner and one loser. In cases where both competitors are guilty on during the same elimination race, the 'First or Worst' rule will apply. This rule applies in all
			s such as in the case where competitor red lights, then their opponent break out. The red light would as the worst infraction.
			ng applies when both competitors are guilty of an equal/same infraction. The 'First' offender will be is ruling does not apply to breakouts - Refer to breakout rule – DR 7.)
			uling applies when both competitors are guilty of a different infraction, then the following order of I apply. The 'Worst' offender will be excluded, starting from Number 8.1.1. ction:
		8.1.1	Failing to report to the Start line on time.
		8.1.2	Failing to stage the vehicle
		8.1.3 8.1.4	Starting the run before the "Amber Light" sequence has started. (Refer to DB 3.1.4) Crossing or touching the strip centre or boundary lines other than leaving the strip intentionally. (In all instances the run is to be aborted and no E.T. or speed will be recorded).
		8.1.5	A red light start
		8.1.6	Failure to complete the run.
		8.1.7	Breaking out of the dial-in nomination where applicable.
DR 9	PASSEN	NGERS	
DR 9	A passen 9.1	NGERS ger may be carı Approval shal	ried in a Drag Racing vehicle, for exhibition purposes only, subject to the following conditions: I be at the discretion of the Clerk of the Course.
DR 9	A passen	NGERS ger may be carr Approval shal The vehicle m The passenge	ried in a Drag Racing vehicle, for exhibition purposes only, subject to the following conditions: I be at the discretion of the Clerk of the Course. hust be of a sedan (or truck) type nature. er must sign a form indemnifying the respective track and MSA from any misfortune.
DR 9	A passen 9.1 9.2 9.3 9.4	NGERS ger may be carn Approval shal The vehicle m The passenge The passenge in question, i.a	ried in a Drag Racing vehicle, for exhibition purposes only, subject to the following conditions: Il be at the discretion of the Clerk of the Course. hust be of a sedan (or truck) type nature. er must sign a form indemnifying the respective track and MSA from any misfortune. er must be afforded the same measure of protection as is afforded the driver for the class of vehicle e., helmet, driving suit, multi-point harness, seat, etc.
	A passen 9.1 9.2 9.3 9.4 9.5	NGERS ger may be carn Approval shal The vehicle m The passenge in question, i.e Restricted to s	ried in a Drag Racing vehicle, for exhibition purposes only, subject to the following conditions: Il be at the discretion of the Clerk of the Course. hust be of a sedan (or truck) type nature. er must sign a form indemnifying the respective track and MSA from any misfortune. er must be afforded the same measure of protection as is afforded the driver for the class of vehicle e., helmet, driving suit, multi-point harness, seat, etc. solo passes only.
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DR10	A passeng 9.1 9.2 9.3 9.4 9.5 PROTES Refer to F START 11.1	NGERS ger may be carr Approval shal The vehicle m The passenge in question, i.e. Restricted to s STS AND AF Part IX of the MS PROCEDUR Full Tree 11.1.1 11.1.2 11.1.3 11.1.4 11.1.5 11.1.6 11.1.7 Pro-Tree 11.2.1 11.2.2 11.2.3	ried in a Drag Racing vehicle, for exhibition purposes only, subject to the following conditions: I be at the discretion of the Clerk of the Course. I bust be of a sedan (or truck) type nature. er must sign a form indemnifying the respective track and MSA from any misfortune. er must be afforded the same measure of protection as is afforded the driver for the class of vehicle e., helmet, driving suit, multi-point harness, seat, etc. solo passes only. PPEALS SA GCRS SA GCRS FE Approach, pre-stage, and stage lights are controlled by the racer's vehicle. The standard arrangement of lights will be three amber lights, one green and a red light at the bottom of the Christmas tree. The timing sequence is variable from 0.3 seconds between lights to 0.5 seconds. This sequence is adjustable from the tower and once established at the start of official practice cannot be varied. The green light coming on is the signal to "GO". A red light may be caused to light by either rolling forwards from the stage position during the start sequence of lights or trying to leave the line too early so as to gain an advantage on an opponent. This technique is usually referred to as "AMBER GAMBLING". If a red light is shown in either lane, the race must be completed. The reare no re-run-on red light starts. The call up, pre-stage and stage light operation remains the same. The start sequence is limited to one amber light and the green light start. The only allowable time sequence between lights is 0.4 seconds.
DR10	A passeng 9.1 9.2 9.3 9.4 9.5 PROTES Refer to F START 11.1	NGERS ger may be carr Approval shal The vehicle m The passenge in question, i.e. Restricted to s STS AND AF Part IX of the MS PROCEDUR Full Tree 11.1.1 11.1.2 11.1.3 11.1.4 11.1.5 11.1.6 11.1.7 Pro-Tree 11.2.1 11.2.2	ried in a Drag Racing vehicle, for exhibition purposes only, subject to the following conditions: I be at the discretion of the Clerk of the Course. hust be of a sedan (or truck) type nature. er must sign a form indemnifying the respective track and MSA from any misfortune. er must be afforded the same measure of protection as is afforded the driver for the class of vehicle e., helmet, driving suit, multi-point harness, seat, etc. solo passes only. PPEALS SA GCRS CE Approach, pre-stage, and stage lights are controlled by the racer's vehicle. The standard arrangement of lights will be three amber lights, one green and a red light at the bottom of the Christmas tree. The timing sequence is variable from 0.3 seconds between lights to 0.5 seconds. This sequence is adjustable from the tower and once established at the start of official practice cannot be varied. The green light coming on is the signal to "GO". A red light may be caused to light by either rolling forwards from the stage position during the start sequence of lights or trying to leave the line too early so as to gain an advantage on an opponent. This technique is usually referred to as "AMBER GAMBLING". If a red light is shown in either lane, the race must be completed. There are no re-run-on red light starts. The call up, pre-stage and stage light operation remains the same. The start sequence is limited to one amber light and the green light start.

		11.3.1 11.3.2	It is not for Race Control to decide lane choice. Lane choice is determined by elapsed time. The driver / rider with the better qualifying position gets first-round lane choice, and in subsequent rounds, the lane choice goes to the driver / rider with the lowest elapsed time (in relation to his/her dial in.) from the previous round. If there is a tie to the thousandth, speed is not the determining factor – the first contestant posting the time will take precedence.
DR12	NATION	IAL DRAG R	ACING RECORDS
	12.1 12.2	The standard records play s	of excellence of performance in South African Drag Racing is the National Record. In a sport where such a vital role, every effort will be made to maintain their accuracy and validity. anges to class regulations for various categories taking effect on 1 January 2023, all present records
			les fitting into the new classes will be carried over to the new class.
	12.3	Elapsed Time recorded to th	e records will be recorded to the thousandth of a second while Terminal Speed records will be the hundredth of a kilometer-per-hour.
	12.4	then those cla posted by the	s of the same type and aspiration has a National ET record quicker than its equivalent higher class, asses without a record or those with a slower ET record will become "Minimum's" utilizing the figure a lower class (i.e. C/S ET record is quicker than B/S record), then the B/S ET record becomes a ing the same ET record set in C/S).
	12.5	presented wit Certificate wil	s who officially set or break National Records, both Elapsed Times and Terminal Speeds, will be h a National Record Certificate. Once the record ratification has been finalised the National Record I be forwarded to the competitor's mailing address as well as held on file at the MSA Head Office.
	12.6		hal Drag Racing records may ONLY be set at National Championship status events classification etings designated by MSA in writing as a record setting event provided that: The track has been accredited by MSA to host drag racing events. A MSA Official is in attendance. The competitor holds a current Drag Racing competition license. In order to ensure their validity, all new records must be backed up with another run within (1%) ONE PERCENT during the periods eligible for record setting at that event. A run that is faster or quicker but outside the one percent can be used as a backup for a record. The record then becomes the slower figure.
		12.6.5	Records may be set or broken during racing ONLY and until a driver/rider is eliminated from further competition. A competitor will be allowed to do one back-up run if he/she is eliminated from competition and if time permits it.
		12.6.6	Previous runs allowable as one-percent backup.
		12.6.7	Separate records will be recognized for ET and KPH performances.
		12.6.8	Records will only be issued in the class entered on the day, i.e., competitors may not enter in one class and claim a record in another.
		12.6.9	Before any backup run and immediately after a record setting performance, a fuel and weight check will be required as well as a cubic capacity certification after the vehicle's last run-in competition. Failure to report to the Clerk of the Course for post-race checks will be considered an admission of illegality and will be grounds for immediate exclusion from the event.
		12.6.11	Any vehicles running as exhibition vehicles (i.e., Top Fuel, Funny Car, Jet Dragster, etc.) will be awarded unofficial records only with one run being completed; however, official records may be claimed if a backup run is being made as per all other classes.
		12.6.12	Competitors who claim records must fill out forms.

	TRACK AND SAFETY REGULATIONS
TR 1	TRACK REQUIREMENTS AND REGULATIONS
	1.1 Permanent Facilities:
	 The plan of the strip is to be submitted to MSA when applying for a track inspection and shall be to a scale of not less than 1:500 and shall indicate position of: 1.1.1 Start and Finish Lines 1.1.2 All enclosures and entrances 1.1.3 All protective Barriers

- All protective Barriers Race Control Assembly for grid starts Type of surface Length of strip Grandstand 1.1.3 1.1.4 1.1.5 1.1.6
- 1.1.7
- 1.1.8

- 1.1.9 Car parks for officials/competitors
- 1.1.10 Entry to and exit from the Parc Ferme for technical inspections
- 1.1.11 Width of track showing maximum and minimum
- 1.1.12 Ambulance positions
- 1.1.13 Scrutineering Bay / Weighing / Welding areas
- 1.1.14 Timekeepers and Lap scorers
- 1.1.15 Secretarial Control and Notice Boards
- 1.1.16 Toilet facilities
- 1.1.17 Refreshment areas

1.2 Obligatory Track Installation

- 1.2.1 The timekeeping, scoring, public address, and secretarial areas to be covered.
- 1.2.2 The paddock, weighing, scrutineering areas to be cemented surfaces or hard standing.
- 1.2.3 Parking facilities for competitors and officials to be close to the track.
- 1.2.4 Toilet facilities for males and females.
- 1.2.5 Parc Ferme area to be capable of closure.
- 1.2.6 Welding area away from paddock and any area where fuel is held.
- R 2 GRA

GRADE A FACILITIES – FIA Homologated venues only

2.1 GRADE B FACILITIES

2.1.2

2.1.1 Timed Distance

Timed distance, from the Start Line to the Finish Line is 1320 feet (402.336 meters). The speed trap extends 20.13 meters either side of the Finish Line, to measure the Terminal speed of vehicles at that point. In some cases, the speed trap utilizes the 20.13m distance before the finish line. Burnout

- (a) A suitable area is required before the Start line for staging and pre-race preparations.
- (b) This area where possible should be in direct line with the Racing surface and provide for vehicles up to ten meters in overall length.
- 2.1.3 Braking Area
 - (a) Primary: From the finish line the primary braking area should extend another 500m. These sections of the track should be the same width as the Racing surface.
 - (b) Emergency: In addition to the Primary braking area a further clear area of 300m should be available.
- 2.1.4 Surface
 - (a) Timed Distance

Smooth flat surface of recognized road base construction hot mix, concrete or approved sealed bitumen surface.

- Shoulders and irregular joints are not permitted. All edges must be satisfactorily blended.
 (b) <u>Primary Braking Area:</u>
- Should be a continuation of the surface used for the Timed Distance but must comply at least with minimum specification for that.
- (c) <u>Emergency Braking:</u>
- Sealed surface.
- (d) <u>Width</u>
 - The width of the track and braking area should not be less than 15.2m.
 - New facilities should not be less than 18.5m.
 - Should the Drag strip widen or narrow the transition should be made as gradually as possible (not less than 1:20)
- 2.1.5 Surface Tolerance
 - (a) The aim should be plus or minus a maximum of 6mm in any 10m distance, for the Time Distance and the Primary Braking Area.
- 2.1.6 Levels Variation
 - (a) Timed distance: Rise or fall should not exceed 1%.
 - (b) Primary Braking Area: A fall exceeding 1% from the Finish Line will require approval from MSA subject to any additional length being available.
 - (c) A rise is acceptable, but consideration should be given to exits so that delays in the clearing of the track may be avoided.
- 2.1.7 Crossfalls
 - (a) For drainage purposes, a one-way cross fall of no more than 1% of equivalent camber, is acceptable.
- 2.1.8 Return Road/Turnoffs
 - (a) The Return Road should be a minimum of 3 meters in width, with suitable access to Pit and Staging Lane areas. It should be sealed so that all vehicles may use it at all times.

- 2.1.9 Safety Barriers
 - (a) Due to variations necessary through individual requirements, the following details are to be considered a general indication of what will be accepted.
 - (b) The primary crash barrier must be located between the track edge, and a point of no closer than 6.0m in front of the spectator fence. Track edge location is preferred. Crash barriers are mandatory for each side of the track or part thereof, where spectators are permitted.
- 2.1.10 Barrier Construction
 - Within two meters of the track edge.
 - (a) Concrete wall as per the FIA Specifications for Drag Racing. This is the only barrier method permitted for a new venues being built from 2025 onwards.
- 2.1.11 Return Road Protection
 - (a) Where a minimum of triple row Armco railing guardrail is located between the track edge and the return road.
 - (b) Otherwise, the return road must be at least 30 meters form the track edge, with some alternative approved line of protection.
- 2.1.12 Spectator Fence

All spectator and pit areas must be enclosed with a minimum 1.2 meters high fence of chain link construction. Security and/or fencing must be provided in any area of potential danger (Staging Lines, Braking Area) to prevent public access.

- (a) All public areas should be maintained to ensure a safe Environment for the general public.
- (b) All spectator areas, including the pit area, must be separated from the restricted areas by fencing (minimum 1.2m in height). Positive barriers are further required where deemed necessary for reasonable protection of spectators and participants.
- (c) All spectator areas, including the pit area, must be a minimum of 15.2m from positive barriers. If spectator areas are located down track more than 200m from the starting line, and if spectator areas are not a minimum of 15.2m from positive barriers, the track must have a debris fence in this area. The top of the debris fence must be a minimum of 2.44m in height and must incorporate at least 2 strands of 10mm steel cable evenly spaced and securely anchored at each end.
- (d) All grandstands must be in compliance with State and Municipal regulations.
- (e) All spectators must be warned throughout the event not to place or allow children to sit or lie in the footboard area. Special emphasis in the warning should be addressed to parents monitoring their children at all times.
- (f) Further signage re-emphasizing this warning must be posted prominently at every entrance to the facility.
- 2.1.13 Pit Area

Tracks intending to host National Championship events should provide facilities for 150 competitors. Pit Area should be rendered dust free (grassed, sealed) and suitable access should be provided between this area, the Staging Lines, and the Return Road.

- 2.1.14 Staging Lines
 - Minimum of four lines 3.0m wide sealed surface leading into the burnout area.
- 2.1.15 Tender/Trailer Park

An area reasonably accessible from the Pits must be available for parking/storage of trailers and vehicles.

2.1.16 Weighing Facilities

Equipment must be available to weigh those vehicles subject to weight/capacity, or minimum weight regulations. Vehicles may be weighed one axle at a time, and the area over which the weighing takes place should be flat over a suitable distance for weighing of the longest vehicles. Scrutineering Facilities

- 2.1.17 Scrutineering Facilities At least one drive through bay 20 feet square (6 meters), with a sealed floor, must be provided for Scrutineering/Classification purposes. A roofed double bay, closed on the prevailing weather side is recommended.
- 2.1.18 Timing Equipment
 - (a) A full electronic timing system is required at all events.
 - (b) The timing equipment should be constructed in such a manner as to measure Reaction Time, Elapsed Time (to one thousandth of a second) and Terminal Speed (to one hundredth of a kph).
 - (c) Foul starts must be indicated by a red light at the bottom of the Christmas Tree should in the lane in which they first occur, triggered by the timing system if the timers start before the green light shows.

2.1.19 Christmas Tree

The Start line display referred to as the Christmas tree should be clearly visible to vehicles in the staging/Start line area of each lane. A "Pro-Start" facility must be available.

- (a) <u>Handicaps</u>
- Handicap facilities, accurate to 0,001 seconds are required.
- (b) <u>Pre-Stage Beam</u>

Located (200mm) before the Stage beam in each lane. Its only purpose is to show he competitor that the vehicle's front wheel is approaching the Stage Beam by illuminating a Pre-stage light at the top of the Christmas tree.

(c) <u>Stage Beam</u>

Located (405mm) before the Guard Beam in each lane, it indicated that the vehicle is in the correct position for the start. The Stage Light at the top of the Christmas tree should activate when the leading edge of the vehicle's front wheel breaks the Stage Beam. The Stage Beam also serves to start the ET timers as the wheel clears the beam, and activates the red "foul" light in the event of the wheel clearing that beam prior to the green light showing

(d) Guard Beam

Located at the start of the Timed Distance the Guard Beam ensures that no vehicle has an excessive amount of roll-out (movement required to leave the Stage Beam). If the Guard Beam is broken at the same time as the Stage Beam and the starting sequence has been initiated, the timers, and the red "foul" light will be activated if the green light is not showing.

(e) <u>Finish Line Beam</u>

The Elapsed Time Beam is located at the Finish Line in each lane, 1320 feet (402.336m) from the Guard Beam. It indicates which competitor reached the Finish Line first and stops the timers. Elapsed times must be available to competitors in written or printed form.

(f) Speed Traps

These are located adjacent to the Finish Line, using photocells at a distance of either 166 or 132 feet (20.1m or 40.2m) to measure the Terminal Speed of the vehicle in each lane, independently of the Elapsed Time. Terminal speeds must be available to competitors in written or printed form.

(g) <u>Photocell Heights</u> Ideally, all light sources, sensors and reflectors should be mounted as close as possible to the level of the track surface with the filament in the vertical position the roll-out at the Start Line should be parallel. Apart from the start line all fittings on the Bacing or breaking.

Start Line should be parallel. Apart from the start line, all fittings on the Racing or breaking surfaces should be of the "breakaway type".

2.1.20 Strip Markings

The track boundaries and the centerline must be clearly marked with a white line, at least 100mm in width. The speed traps should be clearly marked on the track surface with diagonal lines, before and after the finish line.

2.1.21 Track Officials

The track management will provide and supervise such trained Officials as are deemed to be necessary for the safe and efficient conduct of all Drag Racing events. All Officials in areas beyond the start line should be located in protected positions.

- 2.1.22 Medical Facilities
- To conform to 2025 Appendix "L"
- 2.1.23 Fire Equipment
- Fire and Rescue Intervention Vehicle to conform to 2025 Appendix "L"
- 2.1.24 Bridges
 - A minimum of 6m clearance at the lowest point of bridge to roadway.

2.2 GRADE C FACILITIES

2.2.1	Width:	Minimum 9.0m
2.2.2	Length:	Minimum 800m
2.2.3	Level Variation:	As per Grade B
2.2.4	Return Road/Turnoff's:	As per Grade B
2.2.5	Safety Barriers:	Three-tiered Armco railing, utilizing the FIA specification.
2.2.6	Spectator Fence:	As per Grade B
2.2.7	Strip Marking:	As per Grade B

- 2.2.8 Timing Equipment:
- 2.2.9 Track Officials:

2.2.10 Medical Facilities:

2.2.11 Fire and Rescue Facilities:

2.3 OTHER FACILITIES

Street Drags

2.3.1 Limited Competition Drag Strips:

Other venues, apart from public roads such as airports and circuit Racing venues, can be sanctioned by MSA for either regular or individual Drag Racing events. Due to the varied nature and track length of these venues, the types of vehicles, which can compete at sanctioned meetings, will be determined on a case-by-case basis. MSA may allow certain classes to compete at specific venues after an inspection/s have been carried out by the MSA Safety Panel member/s and approved.

As per Grade B

As per Grade B

2025 Appendix "L"

2025 Appendix "L"

2.4 DRAG RACING EVENTS ON PUBLIC ROADS

Drag Racing events may be sanctioned on public roads specifically closed for the purpose for either regular or individual events with the following minimum criteria being applicable.

- 2.4.1 The roads to be utilized must be officially closed for the purpose by the controlling local authority.
- 2.4.2 The competition will be conducted under the Street Racing Rules and will only be permitted between vehicles complying with the Street Drag Racing Class Regulations.
- 2.4.3 The competition will be restricted to vehicles running not quicker than 11.00 seconds.
- 2.4.4 All other vehicles may be permitted to make single exhibition runs under certain criteria as set by MSA on a case-by-case basis.
- 2.4.5 Temporary Sites not using approved barriers must limit spectator access to defined areas extending diagonally away from the Start Line and Racing surface.
- 2.4.6 This criterion may be amended by MSA if adequate alternative safety measures exist at any site (such as natural banks, ditches, existing road barriers, etc.)
- 2.4.7 Prior to the first event being held on any street course, the MSA Safety Panel must inspect the areas and forward a report to MSA detailing the grounds under which the venue shall be approved or a recommendation not to approve the venue if it is not suitable. The final decision to approve all venues rests with MSA.

2.5 MAXIMUM PERMISSIBLE ELAPSED TIME AND SPEEDS

Due to the varied nature and track width & length of these venues, the types of vehicles, which can compete at sanctioned meetings, will be determined on a case-by-case basis. MSA may allow certain classes to compete at specific venues after an inspection/s have been carried out by the MSA Safety Panel member/s and approved.

With regards to facilities where the Drag Strip is less than 15.2 meters wide, no parachute cars may race heads up and only single runs may be done.

TR 3 OFFICIALS

The officials listed in sub-articles (b) to (q) hereof, are mandatory for all status events. They shall be present throughout practice and racing and shall be responsible for carrying out the duties defined.

- 3.1 <u>MSA Steward:</u> Shall be appointed by MSA and responsible to MSA. For National Championship event must hold a Clerk of the Course licence for Drag racing.
- 3.2 <u>Club Stewards:</u> May be appointed by the organisers of each Drag race meeting to act with the appointed MSA Steward.
- 3.3 <u>Powers and responsibilities of Stewards of meeting:</u> Refer to GCR 152. Stewards of the meeting report: Refer to GCR 154.
- 3.4 <u>Clerk of the Course:</u> Must hold a license valid for the grade of the meeting. Duties and powers of the Clerk of the Course: Refer to GCR 156.
- 3.5 Medical organization: As per 2024 MSA Appendix L
- 3.6 Scrutineers and assistants: Shall be licensed by MSA. Refer to GCR 166 for duties.
- 3.7 Chief Timekeeper: Refer to GCR 163.
- 3.8 Chief Scorer: With the aid of adequate assistance, shall record the results of each race.
- 3.9 <u>Starter:</u> To ensure that racers are correctly started and finished, and the proper signals given. Refer to GCR 160.
 3.10 Chief Course Marshal: in accordance with GCR 171 shall be responsible:
 - 3.10.1 To ensure with the aid of at least four assistants, that the strip surface and marking and protective works are maintained in good order throughout the meeting.
 - 3.10.2 To ensure that the firefighting equipment is readily available and correctly sited and that his assistants and the Paddock Marshals are familiar with its operation.

- 3.10.3 To ensure that the strip cleaning units are sited at suitable points.
- 3.10.4 To supervise the removal from the strip of any vehicle that may have stopped on the tarmac.
- 3.10.5 To see that all entrances to the strip proper are manned and that no unauthorized person comes within this area. Normally more than four assistants will be required, and if enclosures are not surrounded by unclimbable fencing there must be course marshals stationed at strategic points between all enclosures and the strip proper.
- 3.11 Chief Paddock Marshal: shall be responsible for:
 - (a) To maintain orderly conduct in the paddock and/or pit area.
 - (b) To notify competitors to assemble on the dummy grid prior to each heat.
 - (c) To exclude any unauthorized persons from the paddock and/or pit area.
- 3.12 <u>Secretary of the meeting:</u> Duties as detailed in GCR 159.
- 3.13 <u>General officials:</u> To be present in a number adequate to control admission to all enclosures, to operate car parking, distribute programs, etc. All officials shall be suitably identified.
- 3.14 Technical Consultant: Refer to GCR 167 for duties. Is mandatory at National Championship events.

After an event, the Clerk of the Course or Stewards in the case of a protest may instruct those vehicles to be impounded for examination by the scrutineers and/or appointed technical consultant for examination by the scrutineers to determine if they comply with the regulations. Any vehicles failing to comply shall be excluded from the results of the event. Refusal to submit a vehicle for scrutiny as directed shall result in automatic exclusion and further disciplinary action. All nuts, bolts and component parts on each vehicle's suspension system, chassis and running gear must be secured with either lock nuts, lock washers or split pins. All nuts and bolts must have full threat engagement.

VEHICLE CONSTRUCTION AND GENERAL SAFETY REGULATIONS

In interpreting these construction and class regulations and specifications the principle of "what is not specifically permitted is disallowed" (GCR 226) shall apply. These construction rules apply to all categories. The category regulation may restrict these rules or permit further modifications. It follows that the category regulations are subject to these regulations unless specifically stated otherwise. They shall be viewed in the narrowest sense and in the interpretation of these regulations; officials shall have regard only to what is stated and not what is implied. Throughout the rules aluminum sheet of 1.6 mm may be utilized to replace metal plate with a thickness of 1 mm, provided the use of aluminum is not specifically excluded. Whenever reference is made to the weight of vehicles it shall include fuel and the competitor after completion of a run.

CR 1	AEROFOIL
	A positive locking device to prevent movement is mandatory. No part of the rear foil to be within 150mm of tyres. Spring loaded spoilers, wings or canards prohibited. Adjustment of airfoils, wings or spoilers not permitted during runs. Front overhang for all vehicle spoilers is a maximum of 1016mm. All front overhangs are measured from centerline of front spindle to forward most point on vehicle.
CR 2	ALIGNMENT
	Each car, regardless of class, must have sufficient adjustment of front alignment to ensure proper handling of the car at all speeds.
CR 3	ANTI-BLOWBACK DEVICE
	This is mandatory for all vehicles in category "MODIFED RACE". Brace or device must be installed that will prevent the clutch can or adaptor shield from being blown backwards in the event of a flywheel and/or clutch explosion. Minimum material requirement is OD .083" wall chrome moly tubing with 10mm fasteners. Ball lock pins prohibited!

CR 4 ARM RESTRAINTS

Arm restraints are mandatory for all Funny cars and open cockpit vehicles capable of running faster than 11.999 seconds. Restraints must be adjusted so that the driver's arms cannot extend beyond the confines of the roll cage, shoulder hoop, etc.

CR 5 AUTOMATIC TRANSMISSION PROTECTION

- 5.1 The following vehicles using OEM automatic transmissions must be fitted with an approved scatter blanket or a protective shield:
 - 5.1.1 All Modified Street, Modified Race and open cockpit vehicles.
 - 5.1.2 All vehicles using transmission brakes.
 - 5.1.3 All supercharged vehicles (including nitrous) that run faster than 10.500 seconds over the quarter mile.
 - 5.1.4 All vehicles: regardless of category, that run faster than 9.000 seconds over the quarter mile.
- 5.2 The protective shield must be fabricated from a minimum of 3mm aluminum and must cover the main body of the gearbox, offering 180° of protection (pan rail to pan rail). It must be securely mounted with two steel straps passing under the transmission.
- 5.3 A 3mm aluminum flex plate shield covering the top 180° measuring 25mm either side of the front and rear of flex plate must be mounted securely to chassis, frame, or other suitable member to protect the driver from exploding fragments.
- 5.4 Alternatively, a 13mm thick piece of conveyer belting may be securely wrapped around the required areas or fastened permanently to the floor pan inside the vehicle. Note: Where other than original torque converters are used all mounting tabs and spacers must be suitably

reinforced. All transmission lines must be high pressure-type hoses.

CR 6 AUTOMATIC TRANSMISSION GEAR SHIFTERS

Any non-OEM automatic floor mounted automatic transmission shifter (i.e., homemade) must be equipped with a springloaded positive lockout device to prevent the shifter from accidentally being put into reverse gear. A functional neutral safety switch is mandatory.

CR 7 BALLAST

Any material used for the purpose of adding to the vehicle's total mass must be permanently attached as part of the car's structure and must not extend behind the rear of the body or above the height of the rear tyres. Ballast carried in the boot, or the trunk will only be permitted if the class allows. No liquid other than the fuel being used to propel the vehicle is permitted behind the front firewall. A maximum of 100kgs removable mass, if class permits, may be added. Not more than 40kgs may be mounted as one single removable mass by at least two 12mm steel bolts or equally strong straps or clamps and must be purposely made weights. (If more than 40kgs is needed, more than one unit is required).

CR 8 BATTERIES

- 8.1 All wet cell car batteries must be located outside the driver or passenger compartment and must be securely mounted with metal hold-down straps and 10mm bolts if battery is relocated from stock or other than stock holddowns are utilized.
- 8.2 In open cars where acid spillage over the driver can occur in an accident, some form of covering over the battery is required to prevent this situation.
- 8.3 A maximum of two batteries may be fitted provided their combined weight does not exceed 50kgs. Onus is on the competitor to prove their vehicle's combined battery weight is under the acceptable limit. If two batteries are fitted, it needs to be marked that way at the isolator switch and both batteries need to be in the same compartment.
- 8.4 Any car with a battery fitted, running quicker than 9.99 seconds and any single purpose drag racing vehicle must incorporate a battery isolation switch capable of shutting of current flow and be operable from the exterior of the vehicle.
- 8.5 It is also recommended that sedan vehicles with trunk-mounted batteries have a trunk key permanently fitted to the lock. A cut-off switch must be connected to the positive side of the electrical system. The "ON" and "OFF" positions must be clearly indicated with the words "ON and OFF".

CR 9 BATTERY LOCATION MARKERS

A three-inch equilateral triangle, colored blue, is required on all vehicles fitted with a wet cell battery or batteries to accurately indicate the battery location. Should the colour of the marker not contrast sufficiently with the vehicle body colour, an additional white border, 2cm wide is required. If a vehicle incorporates at" Battery Cut-Out" switch, the location marker may be placed around the switch to indicate the position. Where more than one battery is fitted in different locations, a marker is required to indicate the position of both batteries.

CR 10 BRAKES

Brakes must be in good working order with two-wheel hydraulic brakes (rear wheels only) as a minimum requirement for vehicles under 910kg. Four-wheel hydraulic brakes are required where noted under category requirements. Lightening of backing plates, brake drums and/or brake shoes by cutting or trimming metal is not permitted. Cooling holes must be drilled in such a manner that they do not weaken the unit and must carry cooling scoops. The drilling of cooling holes in cast iron disc rotors is prohibited. If a hand brake is fitted, the brake handle must be inside of the body confines or driver's compartment. Front wheel drive vehicles may use rear brakes as staging brakes provided the vehicle is fitted with a parachute as a back-up stopping device. Brake lines must be attached to chassis as per OEM style: No Tie-straps and

	must be routed inside the frame or body and be enclosed in a 45cm length of 3mm wall thickness steel tubing and securely mounted where the brake lines pass the flywheel/bell housing area. All brake lines on any rear-engine car must be routed inside of the approved steel tubing or be of braided steel construction where they pass the flywheel/bell housing area. A supplementary or back-up brake system is compulsory on all cars. All pedals must be covered with a non-slip material.
CR11	BURNOUTS No person is permitted to hold or touch vehicles during burnouts (including motorcycles). Motorcycles are not permitted to
CR12	do "U" turns after burnouts. CLUTCH
UNIZ	All cars, except those fitted with a torque converter, must have a foot-operated clutch. All pedals must be covered with a non-slip material.
CR13	COOLING SYSTEM
	If a cooling system is utilized, it must be installed in the stock location for the body style used. Front engine dragsters must have the system installed in front of the engine. In the event of a rear-engine dragster with a radiator mounted in front of the motor, a deflector must be installed from frame rail to frame rail and to the top of the roll cage. No anti-freeze may be used in drag-classes categories such as all vehicles running in Top Eliminator, all Altered and the Modified Category.
CR14	DEFLECTOR PLATE All rear-engine vehicles must have a deflector plate to protect the driver from the engine. Plates must extend from top blower pulley to bottom pulley and be at least 25mm wider than each pulley for supercharged cars, whilst others must have plate covering from shoulder height to bottom of chassis. Minimum attachment for any plate is four 10mm high tensile bolts.
CR15	DELAY BOXES
	Any electrical, pneumatic, mechanical, or other device attached to existing components that intentionally creates a delay between the driver releasing the clutch, trans brake, etc., and the forward movement of the vehicle will be considered a delay device and is prohibited.
CR16	DRIVELINES
	16.1 On any car where the driver sits over or behind the engine, a suitable protective shield of 3mm minimum thickness steel plate must be installed over these units with universal joints securely mounted to the rear and center section and the gearbox tail housing. Couplings are highly recommended in place of U-joints wherever possible. For those units with straight couplings, the minimum requirement is 2mm thickness aluminum which must contain an inspection cover for the removal and inspection of the coupling and must be securely mounted or as noted in the Class Requirements.
	16.2 In place of a cross member in the immediate vicinity of the front universal joint, all competition cars using open drive shafts must have a 360° retainer loop of 6mm thickness and 50mm width securely mounted and located within 150mm of the front and rear universal joints to support the drive shaft in the event of a U-joint failure. Open drivelines passing any part of the driver's body must be completely enclosed in a 3mm thickness steel plate securely mounted to the frame or frame structure. All cars using open Hotchkiss-type drivelines must have radius arms, traction bars, or some suitable pinion support to prevent rear end housing rotation. It is highly recommended that a torque tube be used to enclose all drivelines.
CR17	DRIVELINE ANTI-ROTATION DEVICE
CR18	An anti-rotation device is required in any vehicle where the driver sits over or behind the rear-end (differential). DRIVER'S COMPARTMENT
	All interior panels (firewalls, floors, wheel tubs, doors, etc.) within the driver's compartment of enclosed-cockpit vehicles where the driver is located behind the engine must be constructed of materials other than magnesium and/or non-flammable materials.
CR19	ENGINE With the execution of exhibition vehicles, all engines used in the Drea Basing must be of outemative type origin. Crankshaft
	With the exception of exhibition vehicles, all engines used in the Drag Racing must be of automotive type origin. Crankshaft center lines may not exceed 600mm from the ground in any class.
CR20	ESCAPE HATCH (FUNNY CARS)
	A working escape hatch must be installed in the roof of all Funny Car bodies that have enclosed side windows to permit easy driver exit. See through types are prohibited. Minimum size is 500mm x 500mm. Roof hatch must be permanently attached and hinged at the front and must have a release mechanism operable from both inside and outside the car.
CR21	EXHAUST
	 Each car, regardless of elass category, must be equipped with exhaust pipes to direct the exhaust gasses out of the car body to the rear or side of the car away from the driver, fuel tank and strip surface. Individual exhaust stacks must incorporate a metal connecting strap to prevent loss of one or more stacks during competition. If an exhaust exits through the bonnet, it MUST be angled / re-directed away from the driver's side of the compartment /windscreen. All Turbo charged vehicles with an open exhaust system must have a steel cross welded into the tailpiece of the exhaust system to contain any turbo debris in case of a turbo failure.
CR22	FIRE EXTINGUISHERS AND FIRE BLANKETS
	22.1 An on-board fire extinguisher system is mandatory under certain class requirements. When required, a minimum 1,5kg capacity extinguisher securely mounted, with a steel bracket, consisting of at least 1 steel strap (no tie-straps) and within easy reaches of the driver when he/she is wearing a safety harness.

	22.2	Irrespective of whether the fire extinguisher or on-board extinguisher system is not fitted with a gauge or not, the recent inspection/service label must be displayed, service intervals of 12 months for fire extinguishers and 24 months for on-board extinguisher systems are mandatory. It is the responsibility of the competitor to weigh the extinguisher prior to each event.
	22.3	Funny cars – All cars must be fitted with a manually controlled pull-type only, on-board fire extinguisher system with the primary nozzle(s) directed to protect the driver. Bottles and lines must be permanently mounted, i.e., no hose clamps or cable ties.
	22.4	In the case of more than one bottle, each bottle must have its own steel distribution tubing and nozzles. Nozzle placement is extremely important. Two nozzles are placed at the front of the engine directed into the compartment on either bank of the exhaust headers whilst another nozzle or nozzles should be positioned into the drivers' compartment using an atomizing unit placed at the drivers' feet or near the steering column.
	22.5	Upon activation of the system, the contents of the bottle(s) must be totally discharged. Partial discharge systems are not permitted. The bottles must be mounted in such a manner that should an explosion or failure of any mechanical component of the vehicle occur, the bottles will be protected from flying parts as well as being high enough to not come into contact with the track surface, following a loss of tyres or wheels.
	22.6	Bottles should be protected from excessive temperature and remote cables must be metallic without plastic coatings that will melt and jam the mechanism in cases of fire.
	22.7	"Fire Windows" measuring no greater than 60 square centimeters on either side of the firewall in the vicinity of the valve covers to warn driver of fire are mandatory. Best results are obtained from laminated safety glass or fire-resistant plastics like Lexan or Plex 70.
CR23	FIRE	BLANKET
01120	Blanket	is may be fireproofed by immersing in a solution of 240 grams of Boric Acid dissolved in 5 liters of water. Hand- nd hang to dry. Repeat after each wash. It is recommended that each entrant have a treated fire blanket on hand
CR24		VALLS
01124		
	the eng be cons	ar must be equipped with a flame proof and fuel proof firewall extending from the body sides and from the top of ine compartment upper seal, i.e., hood, cowl, or deck, to the bottom of the floor and/or belly pan. The firewall must structed to provide a leak proof bulkhead between the engine and driver's compartment. All holes or openings must ad with metal as a firegree f metarial.
CR25		ed with metal or a fireproof material.
CR25	Injector uncove	H SHIELDS tubes may extend through individual holes in the hood/bonnet, but carburetors must not be openly exposed or red. In place of a hood/bonnet, carburetors must be equipped with a metal flash shield or velocity stack that prevents m being siphoned into the air stream or blown into the driver's face.
CR26	FLOO	RS
	width of or other 2 inches seat be must co .032-inc steel or	without floors must be equipped with floor pans made of steel or aluminum that must extend the full length and f the driver compartment to the rear of the driver's seat. Cars equipped with floors or belly pans made of fiberglass r breakable material must have metal sub floors. In all cars with OEM fiberglass floors, a cross member (minimum s x 2 inches, .083-inch wall-thickness square tubing) must be installed between frame rails for proper driver's seat, It, shoulder harness and crotch strap installation. Belly pans and sub floors enclosing engine or driver compartment ontain suitable drain holes so that liquids and foreign matter cannot collect, thus creating a fire hazard. Minimum ch aluminum or .024-inch steel. In certain instances, a panel made of composite material may be substituted for aluminum. Use of magnesium prohibited.
CR27	FLYW	HEELS
	better th outlined Vehicle flywhee	icles in competition with the exception of sedan vehicles known not to be capable of quarter-mile performances than 11.999 seconds are required to be fitted with either a steel or alloy flywheel or an acceptable scatter shield as d in the following regulation. No excessively machined unit of cast iron or any other material will be accepted. Is revving over 6000 rpm may not make use of any cast flywheels and/or cast-iron inertia rings attached to the els. Inertia rings / weights MUST be made out of Steel.
CR28	FLYW	HEEL SHIELDS (All "Modified" Vehicles)
	28.1	All rear-wheel drive manual gearshift vehicles in category "Modified" must be equipped with a suitable shield made of 6mm minimum steel plate securely mounted to the frame or frame structure and completely surrounding the bell housing (full 360°) to protect frame, driver, and bystanders from fragments in case of clutch/flywheel disintegration.
	28.2	Alternatively, a 13mm thick piece of conveyer belting may be securely wrapped around the required area or fastened permanently to the floor pan inside the vehicle. Any vehicle utilizing an aluminum bell housing, regardless of performance, must at minimum adhere to the conveyer belting regulation.
	28.3	Shields must not be attached to the bell housing in any way. The flywheel shield must be constructed in such a manner that it covers the top, sides, and rear of the enclosed bell housing completely, shielding the transmission bell and mounting flange to stop fragments entering the driver's compartment.
	28.4	The 6mm steel plate must at minimum extend forward to a point 25mm ahead of the flywheel and also another 25mm past the rear of the clutch and pressure plate.

	28.5	An engine support strap either in the form of a 3mm steel motor plate, 6mm T6 aluminum motor plate or aircraft quality cable (chain is unacceptable) must support the rear of the engine in case of clutch of flywheel disintegration. This requirement is mandatory on all vehicles using a manual gearbox from Street Modified upwards unless it is evident that the headers, frame rails, etc., will prevent the engine from dropping to the surface of the track.
	28.6	Vehicles using a conventional clutch/pressure plate/flywheel to drive an automatic gearbox must comply with the
		aforementioned flywheel shield rule.
	28.7 28.8	A totally enclosed 360° one-piece bell housing/adaptor fabricated from 6mm steel plate and securely mounted using all available engine/transmission mounting points is acceptable in lieu of conventional shields and is recognized as a better alternative to the above method of concealing a clutch/flywheel explosion. Flywheel shields are highly recommended on all vehicles including streetcars revving higher than 5000 RPM.
	28.9	All Front Wheel drive or transverse mounted applications in category "Modified" using a clutch must be equipped with a flywheel shield made of 6mm thickness steel plate. This shield must surround the bellhousing completely except for area of bell-housing adjacent to the differential axle shaft. This shield may be multi-piece, with pieces bolted together using minimum 10mm or 3/8"8.8 grade high tensile bolts and must be attached to engine and bellhousing.
CR29	FLYW	/HEEL SHIELDS
		es fitting category "Modified"-The use of a shield constructed to the following specifications is mandatory in all clutch- ed vehicles running in the above classes over the 1/4 mile.
	29.1	All existing bolt holes must be utilized to secure the flywheel shield.
	29.2	Vent holes must be contained below the crankshaft center line and limited to a maximum 10cm.
	29.3	A clutch inspection and maintenance hole may be cut on the back face of the housing. The hole may not be longer than an area covering 90° of the housing rear surface area.
	29.4	No part of the rotating clutch assembly may extend past the forward edge of the inspection hole on housings with a radiused back.
	29.5	A cover for the inspection-hole must be at least 6mm thick and be fastened with at least six 10mm high tensile bolts.
	29.6	The abovementioned inspection-hole cover must incorporate a 6mm fillet welded precisely to fill the hole, so it is flush in the inside of the housing.
	29.7	Starter motor pocket if utilized, must be of the same material and thickness as the bell housing.
	29.8	Scalloping of bell housing flange is accepted if at least 6mm of material is maintained between the radius and edge of the flange.
	29.9	Motor plate must be of 6mm aluminum T6 plate or 3mm steel for full coverage style with a minimum hole for crank flange to pass through.
	29.10	A crower glide clutch-adjustment slot (one only) is accepted if made precisely to the specifications as outlined in the illustration using a 6mm steel cover.
CR30		IE/CHASSIS
		-welds must have visible reinforcement. Flush grinding of welds is not permitted. The use of materials other than
0004	also to	permitted providing it can be proven the material and welding thereof is stronger than its equivalent in steel. Refer roll cage regulations.
CR31	FUEL 31.1	Service station pump petrol, aviation fuel, racing fuel, ethanol and methanol as sold to the general public through
	31.2	normal retail outlets is permitted. Approved International Fuels
	•=	(a) VP Racing Fuels:
		As per Product Catalogue, revised from time to time
		(b) Philips/Trick: As per Product Catalogue, revised from time to time
		 (c) Sunoco: As per Product Catalogue, revised from time to time
		(d) Torco: As per Product Catalogue, revised from time to time
		(e) 76:
		As per Product Catalogue, revised from time to time
		WARNING: The current method to increase octane in both leaded and unleaded petrol is to increase the number of aromatic hydrocarbons such as benzene, toluene, xylene, and associated compounds. The
		higher the concentration of certain aromatic hydrocarbons, the higher the octane rating. These compounds cause cancer. The higher the concentration in petrol, the higher the risk of leukemia (blood
		cancer) and other cancers. The use of Hydrazine or any other chemicals (other than nitro and alcohol blends) designed to alter
		volatility or chemical composition of the permitted fuel, is totally banned. Use or possession of such material at the Drag strip carries severe penalties.

	31.3	The use of Nitromethane will only be permitted in "Exhibition" or "Top Fuel" classified vehicles.
	31.4	The use of Methanol and 100% Ethanol fuel will only be permitted the Modified car Category. The use of "E85"
		will be permitted in the True Street Car Category. The use of Methanol in any concentration in the True Street
		Car Category is prohibited.
	31.5	Any vehicle that uses Methanol / Ethanol, as fuel must indicate its use by displaying an orange circle of 100mm
	01.0	diameter with an M / E inside the circle.
		Drivers are advised to study the safety requirements set out under CR 31.2 read with CR58.4 and CR 58.5.
		Note: Refer to special MSA circular on approved fuels.
CR32	FUEL	
6R32		SYSTEMS AND FUEL TANKS
	32.1	Wherever permitted in category "Modified" regulations, fuel tanks and fuel lines should be located ahead of the
	20.0	engine. Fuel blocks, if used, must be mounted at least 150mm forward of the flywheel/bell housing area.
	32.2	Fuel lines in the flywheel/bell housing area must be enclosed in a 3mm wall thickness; 450mm length of steel
		tubing securely mounted or alternatively re-routed outside the chassis or frame rails as a protection against fuel
		lines being severed in a clutch/flywheel explosion.
	32.3	In the event of a fuel line passing the supercharger drive areas, a compulsory steel tube protection is required if
		braided steel line with suitable aircraft qualify fittings is not utilized.
	32.4	Fuel tanks located in front of the vehicle's grille and outside the protected areas of the body, frame, and wheels,
		must be protected against collision damage by some means of encasement, (i.e., steel bump bars).
	32.5	All supercharged and/or fuel injected vehicles as well as vehicles using an altered fuel system (other than electric
		pumps), must have a quick action positive fuel shut-off valve of control within each reach of the driver and must
		be located in the main line between the fuel tank and carburetor(s) or injection unit.
	32.6	It is mandatory that fuel pumps be located away from the flywheel area wherever possible.
	32.7	Under no circumstances are any fuel tanks, lines, fuel pressure gauges or other units containing fuel permitted
		in the driver's compartment. All tanks must be completely isolated from the driver's compartment by a firewall
		completely sealed so as to prevent any fuel from entering. All vehicles where a fuel line passes the driver must
		be fitted with metal lines except for a maximum of 30cm of approved flexible fuel hose to allow for connection
		purposes only. Recognized steel braided flexible lines may be used in lieu of solid metal lines.
	32.8	Top of fuel tank must be below top of vehicle's rear tyres. All fuel tanks must have a positive locking fuel cap and
		be vented to the outside of the body or have a built-in check valve.
	32.9	When allowed by class requirements, all fuel cells must have a metal box protecting the part of the cell that would
	02.0	be outside bodylines or trunk floor. All fuel cells must have a pressure cap and be vented to the outside of the
		body or have a built-in check valve.
	32.10	Where the fuel tank is located in front of the driver and engine in the rear (rear-engine Dragsters) fuel lines must
	02.10	be isolated from the driver's compartment with a sub-floor or by use of steel braided liens. The adding of fuel
		while an engine is running is strictly prohibited and is grounds for exclusion.
CR33	GOG	
01100		roof, shatterproof goggles or visors must be worn by all drivers of vehicles not having windscreens. Fire resistant
		s and/or facemask material are mandatory for supercharged or nitro-burning vehicles.
CR34		IONIC BALANCERS
0134	34.1	All sedan or bakkie type vehicles in category "Modified" and all Dragsters, Funny Cars, and vehicles where the
	34.1	engine is NOT enclosed must be fitted with either an explosion-proof harmonic balancer or a harmonic balancer
	24.0	scatter shield.
	34.2	The harmonic balancer scatter shield must be constructed of 6mm thick steel plate securely fastened with at least
		two 10mm high tensile bolts in such a manner as to contain or deflect fragments should the balancer disintegrate.
		The width and circumference of the outer ring must be covered, and the front of the shield should extend down
		at least to the level of the rubber ring in order to retain fragments or to prevent the outer ring from coming forward.
		A 10mm diameter hole may be drilled in the shield for timing mark purposes. No other openings are allowed.
	34.3	Vehicles using a steel outer ring do not require a shield, but the outer ring must have some positive means of
		preventing it from moving forward. This can be achieved by having a step on the back of the ring or a front
		retaining plate equal to the other diameter of the ring made from minimum 3m steel plate or 6mm alloy plate.
	34.4	All pulleys/crank hubs/harmonic balancers must be positively fixed to the crankshaft by bolts or pins.
CR35	HEAD	PROTECTION
	In any	car where a roll bar or roll cage is installed, a padded head protector must be provided at the back of the driver's
	head a	ind constructed to prevent whiplash upon impact. The roll bar or cage must be padded wherever it touches the
		s helmet or other body contact area. A seat, which incorporates a correctly adjusted headrest to within 100mm of
		ck of the helmet, is acceptable.
CR36	HELM	
	36.1	All drivers/riders in all classes must wear a properly affixed SABS approved, or its equivalent, safety helmet while
		In practice or competition on the Drag strip.
	36.2	in practice or competition on the Drag strip. Open-faced belowets are permitted in closed cars provided it can be established that a face masks or respirator
	36.2	Open-faced helmets are permitted in closed cars provided it can be established that a face masks or respirator
	36.2	Open-faced helmets are permitted in closed cars provided it can be established that a face masks or respirator is necessary such as in FC vehicles and methanol burning sedans. However, full-face helmets with built-in
	36.2	Open-faced helmets are permitted in closed cars provided it can be established that a face masks or respirator

	Note: Helmets are inspected as an essential part of the vehicle's safety equipment. Helmet straps should be
	worn beneath the chin. Chin guards or other devices that prevent the proper location of helmet straps are prohibited. The helmet of any competitor involved in an accident, collision or upset must be surrendered to the
	MSA Steward at the event for inspection.
CR37	HYDRAZINE No Hydrazine is allowed in any class under any circumstances.
CR38	
UK30	IGNITION SYSTEMS
	 38.1 Except for fuel injected vehicles with a mechanical fuel shut off, all vehicles must have a positive action on/off switch in good working order within easy reach of the driver and clearly marked "ON/OFF". 38.2 Each car in competition must have a positive action on/off switch, capable of de-energizing the entire ignition
	system, in good working order, located within easy reach of the driver. "Momentary contact" switch prohibited. Magneto "kill button"-type switches are prohibited. All ignition systems and/or components wiring harnesses and attachments must utilize those supplied by the ignition system manufacturer. The wiring harness must be used in an unaltered manner consistent with the manufacturer's installation and instruction books.
CR39	INTERCOOLERS
	There is no restriction on intercoolers but no external cooling by any liquids that may leak onto the track may be used on the pre-race line-up area or on the track.
CR40	INSPECTION
	Each vehicle, regardless of class, must complete and satisfactorily pass the inspection of the Technical Inspectors before
	being allowed a trial run or to participate in any Drag Racing event. All nuts, bolts and component parts on each vehicle's suspension system, chassis and running gear must be secured with lock nuts, lock washers, cotter pins or safety locking wire and must have at least one full thread showing through the nut.
CR41	JACK AND JACKSTANDS (TRESTLES)
	No work may be done under any vehicle in the pit area while it is supported by only one jack. Additional safety devices such as jack stands are required to ensure safety in the event of jack failure.
	41.1 Engines may not be started while driving wheels are off the ground and not supported by adequate jack stands.
	41.2 Failure to observe these jacks stand rules are grounds of instant exclusion.
CR42	LATCHES
	Where a body is of the "flip-top" type, the latch must be located in the centre of the front face of the body. All vehicles with
	left-off doors must have safety pins or locks fitted to the hinges.
CR43	LAUNCH CONTROL/TWO-STEP/TRANSBRAKE
	Driving wheels must be off the ground and on trestles with the driver inside the vehicle.
CR44	LIFTING DEVICES
	Any form of mechanical, hydraulic, or other leverage-type device for raising a vehicle's driving wheels and tyres off the strip surface in the starting area is prohibited.
CR45	LIQUID OVERFLOW/CATCH TANKS
	All machines with any type of liquid capable of dumping or spilling on the track surface, must have a "catch can" to recover the excess liquids. Minimum capacity for all vehicles is one liter. Overflow may be routed into headers on cars, which are supercharged or burn nitro or methanol.
CR46	MAGNAFLUX CERTIFICATES
	As protection against parts failure, each vehicle owner should voluntarily obtain a Magnaflux inspection certificate for
CR47	altered or welded parts. Magnaflux certificates may be required by the scrutineer on any modified or welded parts. NITROUS OXIDE SYSTEMS
	47.1 Nitrous oxide bottles must be securely mounted in the boot or rear of the vehicle. Any such vehicle using a nitrous oxide system is required to have a leak-proof bulkhead between the boot of the vehicle and the driver's compartment.
	 Where no boot space exists in a vehicle (i.e., hatchbacks), the nitrous oxide bottle can be securely mounted (no hose clamps or cable ties) with steel brackets in the passenger's compartment.
	47.3 All nitrous oxide systems not isolated from the driver by a leak-proof bulkhead must be equipped with a relief valve and be directly vented to the outside of the driver's compartment utilizing a flexible fuel line to disperse gas leakage into the atmosphere.
	47.4 Where nitrous lines pass the converter or flywheel area, they must be encased in 3mm thickness steel tubing for 450mm or alternatively be re-routed outside the chassis or frame rails. All flexible nitrous lines must have a high- pressure rating of 1500psi as minimum.
	47.5 The use of any agents other than nitrous oxide as part of or mixed with this pressurized fuel system is strictly prohibited.
	 47.6 Bottle shut-off valves must be equipped with an on/off tap. Any bottles requiring a special key are not permitted. Only cylinders designed for the use and storage of nitrous oxide and that are equipped with a safety pressure
	valve are acceptable.

	outside of compartment. System must be commercially available and installed per manufacturers recommendations.
	47.8 External heating of bottle(s) with open flame is prohibited.
CR48	NIGHT LIGHTING
	All vehicles racing at night are recommended to be fitted with an operative red taillight or reflective tape. (Refer to class
CR49	regulations.) NUTS AND BOLTS
01140	The use of ultra-high tensile Allen and star head bolts of the type commonly referred to as "unbrace" in areas where lateral
	impact may be experienced is not permitted.
CR50	OCCUPANTS
	No more than one person is permitted in any vehicle during its participating in qualifying and/or competition run-offs. Any time a vehicle is started, whether in the pits, staging lanes or anywhere else on the Racing facility, a competent driver must be in the driver's seat.
CR51	OIL CONTAINMENT DEVICE (ENGINE)
	Engine diaper or catch-pan device to capture oil and debris in event of engine failure is highly recommended or mandatory for category "Modified" vehicles. (Refer to category regulations). If catch-pan device is used, the catch-pan must employ a lip of adequate height on all sides and must be curved inward, so as to contain oil.
CR52	OIL SYSTEM
CR53	Accu-sump, dry sump, oil filters, oil supply lines etc., are prohibited in the driver's compartment. Only an oil pressure gauge and line are permitted in the driver's compartment. PARACHUTES
	All parachutes to be manufactured by a recognized DRAG RACING EQUIPMENT MANUFACTURER and must be suitable
	sized and suitable mounted as per the manufacturer's instructions.
	 53.1 (a) STOPPING DISTANCE EXCEEDING 600 METRES Any car capable of exceeding 300km/h and with four-wheel brakes, <u>TWO</u> parachutes mandatory.
	 Any car capable of exceeding 300km/h and with two-wheel brakes, <u>TWO</u> parachites mandatory. Any car capable of exceeding 280km/h and with two-wheel brakes, <u>TWO</u> parachites mandatory.
	 Any car capable of exceeding 250km/h (and slower than 300km/h) and with four-wheel brakes, a
	minimum of <u>ONE</u> parachute mandatory. (Two parachutes recommended).
	 Any car capable of exceeding 230km/h (and slower than 280km/h) and with rear wheel brakes only, a minimum of <u>ONE</u> parachute mandatory. (Two parachutes recommended).
	53.1 (b) STOPPING DISTANCE LESS THAN 600 METRES (AND OVER 500 METRES)
	• Any car capable of exceeding 280km/h and with four-wheel brakes, <u>TWO</u> parachutes mandatory.
	 Any car capable of exceeding 260km/h and with two-wheel brakes, <u>TWO</u> parachutes mandatory.
	 Any car capable of exceeding 230km/h (and slower than 280km/h) and with four-wheel brakes, a minimum of <u>ONE</u> parachute mandatory. (Two parachutes recommended).
	 Any car capable of exceeding 220km/h (and slower than 260km/h) and with rear wheel brakes
	only, a minimum of <u>ONE</u> parachute mandatory. (Two parachutes recommended).
	53.1 (c) STOPPING DISTANCE LESS THAN 500 METRES
	Any car capable of exceeding 260km/h and with four-wheel brakes, <u>TWO</u> parachutes mandatory.
	• Any car capable of exceeding 240km/h and with two-wheel brakes, TWO parachutes mandatory.
	 Any car capable of exceeding 230km/h (and slower than 260km/h) and with four-wheel brakes, a minimum of <u>ONE</u> parachute mandatory. (Two parachutes recommended).
	 Any car capable of exceeding 220km/h (and slower than 240km/h) and with rear wheel brakes only, a minimum of <u>ONE</u> parachute mandatory. (Two parachutes recommended).
	53.2 The Scrutineer should observe the proper operation of the chute/s and also inspect the same for worn or ragged pilot or drogue chutes.
	53.3 The parachute release cable should be mounted solidly to a frame tube or other suitable member, no further back than 25mm from the 'D' ring or release lever.
	53.4 Drag chutes must have their own independent mounting brackets and must not be mounted to the same bracket as the safety harness.
	53.5 If a safety release pin or hook is used, a clear indicator tag or flag must be attached to this item.
CR54	PARACHUTE RELEASE/RIP CORD If the ripcord or release cable is attached to the frame or body and passes by the flywheel/clutch area, it must be enclosed
	in a protective steel pipe as explained in the section on BRAKES. (Article 10).
CR55	PARACHUTE USE
	In all instances the 'chute' must be seen to be deployed by the end of the speed traps were considered necessary by
	stewards. Failure to deploy a 'chute' under competition conditions will be seen/treated as 'faulty' vehicle preparation and renders the driver liable to reprimand, or if failure continues, exclusion. The onus is on the driver to ensure the 'chute/s' is
	packed and maintained correctly. The Clerk of the Course may at his/her discretion ask for the parachute to be deployed
	during any run to satisfy himself that all parachutes are working correctly.

CR56	PINION SUPPORT			
	All vehi	icles using an open driveline must have radius arms, traction bars or some suitable pinion support to prevent rear-		
	end ho	using rotation.		
CR57	PROP	PYLENE OXIDE		
	The use of Propylene Oxide is prohibited in all classes/categories.			
CR58	PROT	ECTIVE CLOTHING		
	58.1	All vehicles as per category regulations all vehicles category "Modified" together with vehicles which have fabricated or modified firewalls and/or floor (which includes wheel wells) require the driver to wear Nomex or wool one/two-piece driving suits as a minimum, plus non-flammable, balaclava, shoes and stocks.		
	58.2	Vehicles in category "Street Car", which have not been modified either in the firewall or floor areas require the driver to wear at minimum, a long-sleeved upper garment, long trousers, shoes, and socks. The wearing of short pants and/or short sleeve shirts is prohibited, and drivers are urged to wear a full overall that has been treated in the same manner as a fire blanket. (See FIRE extinguishers AND FIRE BLANKETS).		
	58.3	In both the above instances, drivers should note that "takkies" or any footwear capable of burning or melting are not permitted to be worn by any competitor while racing. No Nylon clothing is permitted under any circumstances.		
	58.4	Drivers of vehicles using Methanol as a fuel are required to wear a minimum two-layer fire resistant one piece overall or two-piece driving suit (pants and jacket). Nomex or wool socks and underwear, fire resistant boots, gloves and facemask (balaclava) are all mandatory. Onus of proof of compliance is on the entrant.		
	58.5	Drivers of vehicles using Pure Ethanol as a fuel are required to wear a minimum two-layer fire resistant one piece overall or two-piece driving suit (pants and jacket). Nomex or wool socks and underwear, fire resistant boots, gloves and facemask (balaclava) are all mandatory. Onus of proof of compliance is on the entrant.		
	58.6	Drivers of vehicles using Water Methanol Injection, irrespective of concentration are required to wear a minimum two-layer fire resistant one piece overall or two-piece driving suit (pants and jacket). Nomex or wool socks and underwear, fire resistant boots, gloves and facemask (balaclava) are all mandatory. Onus of proof of compliance is on the entrant.		
	58.7	Drivers of vehicles capable of times faster than 9.99 seconds and speeds faster than 230 kph plus all mechanically supercharged vehicles are required to wear a minimum two-layer fire resistant one piece overall or two-piece driving suit (pants and jacket). Nomex or wool socks and underwear, fire resistant boots, gloves and facemask (balaclava) are all mandatory. Onus of proof of compliance is on the entrant.		

58.8 Safety Apparel & Equipment (Clothing)

Such fire-retardant clothing must be in a good condition and should ideally carry an FIA stamp of approval or one of the identification labels as listed below:-

Race Suits:

As from 2008 all local <u>race suit</u> manufacturers will include a permanent visible identification label on the back collar, to indicate compliance with the following approved fire-retardant fabrics and finishes:-

approtod in o total dant dante				
NOMEX	KERMAL			
DIAMOND	TER			
PYROVATEX	CARMYTH			
AFLAMMIT	KARVIN			
PROBAN	DELTA C			

It's highly recommended that 100% Nomex sewing thread, or a similar flame-retardant thread is used in the manufacture of the garment for all stitching and box quilting.

LEVEL 1: Single layer one (1) piece race suit



LEVEL 2: Double layer one (1) piece race suit



LEVEL 3: Double layer one (1) piece race suit of which at least one (1) layer is comprised of Nomex / Diamond fabric



CR59	PUSH BARS				
	Tow or push starts not permitted. Each vehicle in competition should be equipped with a suitable bumper-height pushing attachment to facilitate emergency pushing. Push bars should be designed to prevent push car from riding up onto rear wheels of Dragster.				
CR60	REAR-END				
	Welded spider gears in rear ends are prohibited in all categories				
CR61		BAR/CAGE GENERAL REGULATIONS (refer to FIA Appendix J – Article 253)			
	The follo	owing regulations apply to all roll bars and roll cage specification requirements:			
	61.1	Steel tube shall be round in section and electrical resistance welded with full to penetration. Arc welding and in particular, TIG Heliarc welding preferred.			
	61.2	Welding must be free of slag and porosity whilst the process of flattening bars to necessitate joint welding is prohibited. All pipes must be notched to provide an acceptable joint where two bars meet.			
	61.3	No sleeving of roll bar/cage structure is permitted under any circumstances. All bending of pipes must be done with an approved process (e.g., Mandrel). Flush grinding of welds is prohibited.			
	61.4	All vehicles must have a 3mm sight hole drilled in relevant areas of the roll bar/cage structure to allow scrutineers to check wall thickness of tubing.			
	61.5	On enclosed vehicles (e.g., Sedans, Bakkies, Coupes, etc.) which are constructed in such a way that the body could separate from the chassis/roll cage in an accident, steel mesh or net of a maximum 75mm mesh is required to be fitted into the roll cage structure above the driver's head.			
	61.6	Threaded pipe or fittings, lap welded pipe, magnesium or aluminum pipe or tubing is not permitted.			
	61.7	On any vehicle where the standard flooring or any part of the standard structure has been removed, the roll cage must incorporate a rocker or sill bar to tie the front and rear of the cage together.			
	61.8	Any vehicle where standard flooring or any part of the standard structure has been removed or lightened (i.e., gutted), regardless of performance, must have a roll bar as a minimum requirement.			
	61.9	No material such as aluminum or copper will be allowed.			
CR62	"ROLL	BAR" STRUCTURAL REQUIREMENTS – ALL ENCLOSED VEHICLES			
	62.1	All enclosed OEM model-year production vehicles older than 2008 (i.e., Sedans, Bakkies, Coupes, etc.), in the True Street Car Category and Modified Car Category, capable of running <u>faster than 12.000 seconds and slower</u> than 10.500 seconds, or where the rear seats have been removed (refer to CR67.4), are required to fit a minimum three-point roll bar structure. All open vehicles, i.e., convertibles, sports cars, roadsters and the like, must have roll bar protection regardless of performance.			
	62.2	All roll bars must be a minimum of 42mm x 3mm wall thickness, mild steel, and be within 150mm of the rear of the driver's helmet. The main hoop must extend at least 75mm in height above the driver's helmet whilst in the normal driving position and be at least as wide as the driver's shoulders. Roll bars can be bolted together by minimum of a 10mm (GRADE 8.8) bolts with flanged supports plates.			

- 62.3 The roll bar must be adequately supported to prevent forward or lateral collapse in case of a spin out, collision or upset. Braces must be of the same diameter and wall thickness as the roll bar and intersect at a point not more than 100mm from the top of the main hoop.
- 62.4 Roll bar mounting points must be securely fastened to frame or frame rails either by 10mm (8.8 grade) bolts and flanged supports or approved welding methods or by using a minimum 150mm x 150mm x 3mm steel plate on top and bottom of the floor securely bolted together with at least four 10mm or 3/8"8.8 grade high tensile bolts and nuts to sandwich the floor.
- 62.5 If the car has no frame structure, the roll bar must be fitted using a minimum 150mm x 150mm x 3mm steel plate as a foot to which each bar is welded then another steel plate of the same dimensions must be bolted under the body with at least 109mm nuts and bolts to sandwich the floor as an adequate anchorage.
- 62.6 No pop rivets or fastening bolts will be allowed for any structural support/fitting of roll bars unless it is FIA approved, or OEM fitted.

"ROLL CAGE" STRUCTURAL REQUIREMENTS – ALL ENCLOSED VEHICLES

63.1 TRUE STREET CAR CATEGORY

CR63

CR64

- 2014 Current OEM model-year production enclosed vehicles (Euro NCAP 5 Star Rated) <u>running</u> <u>quicker than 9.000</u> seconds are required to be fitted with a roll cage designed to protect from any angle (360°) and mounted at a minimum six points to the following minimum specifications.
- 2008 2013 OEM model-year production enclosed vehicles (Euro NCAP 5 Star Rated) <u>running</u> <u>quicker than 10.000</u> seconds are required to be fitted with a roll cage designed to protect from any angle (360°) and mounted at a minimum six points to the following minimum specifications.
- Pre 2008 OEM model-year production enclosed vehicles <u>running quicker than 10,500</u> seconds are required to be fitted with a roll cage designed to protect from any angle (360°) and mounted at a minimum six points to the following minimum specifications.

Convertibles <u>running quicker than 13.499</u> seconds are required to be fitted with a roll cage designed to protect from any angle (360°) and mounted at a minimum six points to the following minimum specification

MODIFIED CATEGORY

- All vehicles in this category are required to be fitted with a roll cage designed to protect from any angle (360°) and mounted at a minimum six points to the following minimum specifications.
- 63.2 Main roll cage hoops 38mm x 3mm wall thickness, mild steel, or alternatively 1 1/2" x 083" chrome moly.
- 63.3 Side/cross bars 32mm x 2.6mm wall thickness, mild steel, or alternatively 1 1/4" x .065" chrome moly.
- 63.4 Roll cage mounting points must be securely fastened to frame or frame rails by approved welding methods, i.e., arc or preferably TIG Heliarc).
- 63.5 If the car has no frame structure the roll cage must be fitted using a minimum 150mm x 150mm x 3mm steel plate as a foot to which each bar is welded, then another steel plate of the same dimensions must be bolted under the body using at least four 10mm nuts and bolts to sandwich the floor as an adequate anchorage.
- "ROLL CAGE" STRUCTURAL REQUIREMENTS DRAGSTERS, FUNNY CARS, ETC.
- 64.1 For all Dragster, Funny car and open-wheel, space frame type vehicles, specifically designed for Drag Racing, regardless of performance, the following minimum specifications will apply to the driver's compartment.
- 64.2 Roll Cage: Vehicles weighing under 370kg may use minimum 34mm x 3mm wall thickness, mild steel, or 138 x .083" chrome moly. All vehicles over 370kg must use a minimum 38mm x 3mm wall thickness mild steel or alternatively 11/4 x .065" chrome moly for cage tubing. Cage must be attached to shoulder hoop at six points for Funny Cars or open wheelers and five points for Dragsters. Front of driver's helmet must be a minimum of 75mm behind the front roll cage hoop.
- 64.3 Shoulder Hoop, Top and Bottom Frame Rails, Uprights and Cross-members: A minimum 32mm x 3mm wall thickness, mild steel or alternatively 1¹/4" x .065" chrome moly.
- 64.4 Diagonals: A minimum of 19mm x 3mm wall thickness mild steel or alternatively 3/4 x .058" chrome moly.

CR65 SAFETY BELTS AND HARNESSES

- 65.1 All vehicles regardless of performance or age must be fitted with a minimum lap/sash, three-point quick release driver's seat belt in good operating condition and complying with the South African road ordinance requirements for safety belts.
- 65.2 In all enclosed vehicle True Street Category vehicles older than 2008 (i.e., Sedans, Bakkies, Coupes, etc.) capable of running quicker than 12.00 and slower than 10.500 seconds it is advisable to have a minimum four-point safety belt/harness in good operating condition fitted for driver protection, unless a full roll cage is installed in which case a harness is mandatory.
- 65.3 All modified cars and/or all space frame vehicles specifically designed for Drag Racing, i.e., Dragsters, Funny Cars, Altered, etc., capable of running quicker than 10.500 seconds it is mandatory to have a minimum center locking, six (6) point "inverted V" type racing harness as described below.
- 65.4 In all circumstances, belts must be in good condition and securely fastened to the frame or a suitably reinforced mounting so that all fittings are in a direct line with the direction of pull. If a racing harness is installed, the applicable race seat must be installed. (refer to CR67.3)

- 65.5 If the belt mounting point requires reinforcement, a minimum 75mm x 75mm x 3mm plate must be used to adequately anchor the harness at each mounting point.
- 65.6 Under no circumstances are bolts to be inserted through belt webbing. In any vehicle requiring a roll bar as minimum structural protection, inertia reel belt/harness assemblies are not permitted.
- 65.7 All harnesses must be installed in such a manner that they will limit the travel of the driver's body, both upward and forward. Shoulder straps mounted behind the driver must be above a theoretical line of 40° down from horizontal, but not above the horizontal.
- 65.8 Protective plates are mandatory where belts wrap around any frame area exposed to potential abrasion, especially in an accident or in the event of wheel loss.
- 65.9 Belts to be worn and securely fastened at all times while the vehicle is driven and propelled by its own engine.
- 65.10 DEVICE SPECIFICS (Refer GCR 239.D)
 - (a) APPROVED SPECIFICATION
 - Only those harnesses which comply with one of the following standards will be approved by MSA for use in the specified categories:
 - i 1. FIA
 - ii 2. SFI

In all instances the relevant international standard / approval will be clearly indicated on the harness by means of an integral label.

FIA LABEL

The main label identifies the harness belt system and carries all information required by the FIA, i.e., Manufacturer, Last year of use and FIA homologation number. The label is sewn onto the harness belt portion permanently fixed to the buckle.

Content of the FIA homologation number

- "C" = harness restraint with 5 straps in contact with the body.
- "D" = harness restraint with 6 straps in contact with the body.
- Homologation number issued by the FIA, e.g., 136.
- "T" = for rotary buckle version (Turn)
- "P" = for push button buckle version (Push)

Digits representing the year of issue in respect to the standard the harness belt is homologated under. In terms of the above international standards only those harnesses with a minimum of 3" (approx. 75mm) shoulder straps with 2" (approx. 50mm) or 3" (approx. 75mm) waist straps are approved. In terms of the approved international standards safety harnesses with 3/4/5/6 mounting points are permitted, although it is recommended that an anti-submarine (crutch) strap be utilized. The only exception to the above specification is the combination 2" / 3" shoulder straps fitted to those FIA approved safety harnesses specifically intended for use in conjunction with the FHR head restraint system, in which case the relevant FIA label will clearly state "FOR FHR USE ONLY". It should be noted that approval of this particular harness is only valid should the product be used in conjunction with the FHR head restraint system which must be produced at scrutineering. The addition of shoulder pads is strongly recommended where the use thereof is practical within the specific application.

(b) NON-COMPLIANCE

The approval of safety harnesses that comply with the above international standards will be considered to have expired in the event of the following:

1. FIA approval - Date of expiry as indicated on label + 5 years

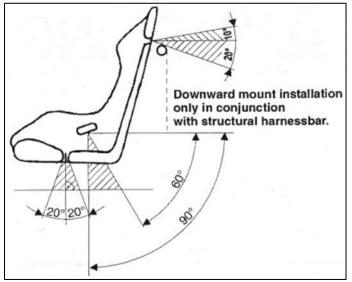
2. SFI approval - Date of expiry and/or manufacture as indicated on label (2years) + 2 years

The approval of safety harnesses that comply with the above international standards will no longer be approved in the event of the following: Excessive wear (fraying). or it is apparent that the safety harness has been modified from its original form or repaired in some manner. The individual safety harness components (shoulder straps / waist straps) are different colours.

(c) INSTALLATION

When installing a safety harness the manufacture installation instructions should be followed carefully so as to ensure that the performance of the product is optimized. All fittings, nuts, bolts, etc. used during the installation process must be suitable for the purpose of safety harness installation so as to allow the harness to perform as intended. Annexure J, Article 253-42 of the FIA regulations clearly specify the correct installation procedure.

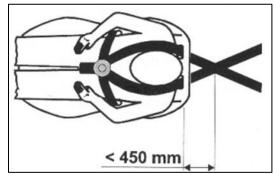
Figure 1 shows the strap angles required for proper safety harness installation. In order to ensure
correct anchorage and performance in the event of an incident it is important that these angles be
met. Use of an improper anchorage or routing of any strap will reduce safety harness performance
and increase the risk of serious injury or Death.



Never run the shoulder straps downwards from the backrest slots without a strap support bar which can withstand the load applied to it during a crash. The seat backrest is not designed to accommodate this load and may collapse in the event of an accident, thereby greatly increasing forward movement of the occupant which can cause serious injury or death.

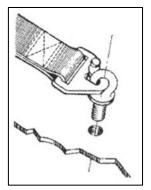
An anti-submarine (crutch) strap routed towards the rear may cause serious injury during a crash as it is not designed to be a body restraint and is only intended to keep the lap belt in place during a crash so as to reduce the risk of "submarining". Similarly, the anti-submarine strap should never be run over the front line of the seat as such an installation will eliminate its intended function.

In those instances where the shoulder straps anchorage points are located more than 450mm from the rear of the backrest, it is important that the shoulder straps cross each other at the same level as that which the shoulder straps pass through the seat. Improperly installed shoulder straps may slip the shoulders during a crash and thereby increase the risk of severe head and neck injury or even death.



i. Eye-Bolt Installation (number)

The minimum length of an eyebolt used in the installation of a safety harness should be 25mm, ideally used in conjunction with a spring washer to secure the bolt from loosening. Always make sure that the eyebolt is positioned in the direction the belt will pull in a head on collision. Eyebolts should be tightened to a minimum torque of 40Nm using a reliable torque wrench.



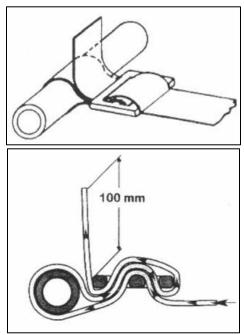
It is recommended that the anchorage points of the vehicle manufacturer be utilized wherever possible in respect to mounting of the safety harness. Any drilled anchor point must be properly reinforced to accept the load which will be applied thereto during a crash.

ii. Wrap-around Installation

Strap attachment to a weak roll cage can cause the bar to fail and result in serious injury or death. It is recommended that the roll cage manufacturer be contacted to ascertain crossbar strength and the ability thereof to withstand loads from the shoulder straps in the event of an accident.

Incorrect attachment of the strap to the adjuster can cause the belt to pull out of the adjuster in the event of an accident. Always follow the manufacturer installation instructions regarding the correct manner in which to run the strap through an adjuster when making use of a wrap-around installation.

The adjuster must be positioned as close as possible to the roll cage and the shoulder straps should be threaded through the adjuster with the protruding strap at least 100mm long.



- (d) NECK RESTRAINT
 - Neck brace is highly recommended compulsory for vehicles running quicker than 9.99 seconds. Is Highly recommended for vehicles running slower than 10.00 seconds.

CR66 SAFETY HUBS

- 66.1 All vehicles in competition, other than genuine streetcars with original engines, must be equipped with a satisfactory means of axle retention. A minimum of 3mm thick steel plate reinforcement for standard bearing retainers is required.
- 66.2 Whenever possible, approved aftermarket axles or internal safety hubs should be utilized in lieu of standard items.

	66.3	In place of internal type safety hubs, a minimum of four hooks per driving wheel must be attached to the backing plate with a minimum of two 6mm high tensile bolts per hook.
	66.4	Each hook must be made of 6mm minimum thickness steel plate at least 25mm width firmly mounted to retain the drum, hub, and wheel in the event of axle failure. The attention of competitors is drawn to the possibility of handling hazards in the event of an axle shaft breaking while the vehicle is fitted with a locked rear-end.
CR67	SEATI	
01101	67.1	The driver's seat in any vehicle in competition must be so constructed, braced, and mounted in such a way that it will give full back and shoulder protection to the driver in the event of a vehicle upset, spinout or collision.
	67.2 67.3	The driver's seat must be supported on the bottom and back by a frame or cross member. Must not be bolted Plastic kitchen-type and magnesium seats are not permitted, however, properly braced, framed, supported, and constructed seats of aluminum or fiberglass (accessory seats) are acceptable.
	67.4	Rear seat may be removed if an approved three-point roll bar structure (half cage) is present in certain classes, or a Factory homologated seat delete kit has been installed.
CR68		K ABSORBERS
		ar in competition must be equipped with one operative shock absorber for each sprung wheel. Shocks must be
CR69	STAR	ydraulic or friction type, securely mounted and in good working order. (See class requirements).
UNUS		cles must be self-starting, other than those competing in Top Eliminator Cars or Bikes.
CR70	STEEL	
	70.1	Each vehicle's steering system will be inspected to determine its condition and must be considered safe by the scrutineer. Steering wheel "play" must be at a minimum. Drag link and tie rods must be secured and keyed. All
	70.0	altered or modified steering systems will be closely checked for insecure welds and faulty parts.
	70.2	All rod ends must be a minimum 10mm shank diameter and must be installed with flat washers to prevent bearing pull out. Hollow rod ends are prohibited. All tubes into which rod ends are inserted must be drilled for thread engagement inspection.
	70.3	The use of female Heimi joints is not permitted except in the installation of rack and pinion steering where a Heimi joint is used to replace the original ball joint, and no welding is involved. Any vehicle with rack and pinion steering
		and a beam or tube axle must have the steering mounted on the axle and incorporate a universal-joint steering shaft. The length of shaft forward of the joint must be equal to and travel through the same arc as the radius rods locating the axle.
	70.4	All steering boxes, sectors and shafts must be mounted to the frame or suitable cross member and cannot be mounted in any case to the bell housing and/or bell housing adaptor shield.
	70.5	On long wheelbase vehicles, a secondary steering shaft stop must be installed to prevent the long steering shaft from injuring the driver in case of frontal impact. A collar or U-joint pinned at cross member or bracket, etc. is acceptable.
CR71	STEEL	RING WHEELS
01(7)	71.1	A full steering wheel is required with a minimum of 300mm diameter.
	71.2	Dragsters, Funny Cars and open-wheel, space frame vehicles designed specifically for Drag Racing may use a twin grip steering wheel having a minimum inside width of 180mm across the grips.
CR72	71.3 SUPE	Commercially available quick-disconnect steering wheels are permitted, subject to approval by the "Scrutineers" RCHARGERS
	72.1	All vehicles equipped with belt driven superchargers must have a guard fitted to prevent fuel line damage in the event of belt loss. This is not required where steel braided hose is used in conjunction with aircraft quality
		connections or where lines themselves are shielded.
	72.2	All superchargers used in competition must be correctly set up for high performance use incorporating heavy- duty components applicable to Drag Racing requirements.
	72.3	Types: 72.3 Roots-type:
		.1 Maximum size permitted 14-71; 482.6mm maximum rotor case length; 285.75mm maximum case width;
		6.35mm minimum case thickness; 6.35mm minimum front plate thickness. 300 minimum rear plate
		thickness. Maximum rotor cavity diameter is 148.34mm. Rotor helix angle may not exceed that of a standard 71-series GM-type rotor (4° per 25.4mm). Maximum overdrive may not exceed 70%.
		72.3 Roots-type High Helix:
		.2 Must adhere to the same maximum case dimensions and maximum rotor cavity diameter as standard Roots. Rotor helix angle may not exceed 6.5° per 25.4mm, (123.5° total over 482.60mm maximum rotor length). Maximum overdrive may not exceed 70%.
		72.3 Screw-Type:
		.3 Must meet SF1 Spec 34.1. Maximum case length 406.40mm, maximum case width 406.40mm, minimum
		case and front plate thickness 6.35mm, minimum rear plate thickness 7.62mm. Manifold pressure release mechanism (in addition to burst panel in supercharger) plus supercharger restraint system is mandatory.

mechanism (in addition to burst panel in supercharger) plus supercharger restraint system is mandatory. Under no circumstances may a screw supercharger overdrive exceed the following overdrive limits:

ENGINE DISPLACEMENT	MAXIMUM OVERDRIVE		
	WHIPPLE	PSI	
8194 CUBIC CENTIMETRES OR LARGER	1.60	2.25	
7375 - 8193 CUBIC CENTIMETRES	1.52	2.15	
LESS THAN 7375 CUBIC CENTIMETRES	1.44	2.04	

- 72.3 Variable multi-speed supercharger devices are prohibited regardless of the supercharger type.
- .4
- 72.3 Aluminum studs (supercharger to manifold) are mandatory on all superchargers.
- .5

.6

72.3 Supercharger restraint systems are mandatory.

CR73	SUPERCHARGER RESTRAINTS
01110	

- 73.1 All belt-driven supercharger devices must have as a minimum, a supercharger restraint system in conjunction with aluminum shear bolts (strip studs) at all mounting points as mandatory to prevent the supercharger from being blown free of the engine.
- 73.2 All vehicles competing in Top Fuel, Top Fuel Funny Car or Top Fuel Competition Altered must be fitted with a ballistic supercharger protection device meeting SF1 specification 14.2.

CR74 SUSPENSION

- 74.1 All vehicles must have a full suspension of the type produced by automobile manufacturers, i.e., springs, torsion bars, etc.).
- 74.2 Rigid-mount front/rear axles are permitted when so indicated by class requirements. Where more than one pair of radius rods are used to locate a front axle, rods must be of the same length.
- 74.3 Traction bars or other devices used to transmit rear-axle torque to the frame, thus preventing violent rear-spring "wind-up" under acceleration or deceleration, are considered safety equipment, and are therefore accepted where category permits. Traction devices, if used, may not be longer in overall length than one-half of the wheelbase of the vehicle on which they are installed. No portion of any traction device may extend lower than the level of the lower edge of the rear rim.
- 74.4 All rod ends (steel minimum) incorporated into either a "ladder bar" or "four link" suspension system must have a minimum M20 shank diameter (chrome moly 16mm). Rod ends must thread a distance at least equal to 1.5 times the diameter of the shank into the bars they are inserted. Each bar must be drilled to allow for thread engagement inspection and either a strap or some other means of prevention must be attached at the front of both the "ladder bar" and/or "four link" system to stop them coming into contact with the track if the rod ends fail.

CR75 THREAD ENGAGEMENT INSPECTION HOLE

- All bars which incorporate the use of rod ends must have a 3mm inspection hole drilled a minimum of 1.5 times the rodend shank diameter along the bar to allow scrutineers to check for adequate thread engagement.
- CR76 THROTTLE LINKAGE
 - Regardless of class, each vehicle must have a foot throttle incorporating a positive-acting return spring attached directly to the carburetor throttle arm. A positive stop or over-ride prevention must be used to keep linkage from passing over centre and sticking in an open position. In addition to return springs, some means of manually returning the throttle to a closed position by use of the foot must be installed on all vehicles using any other than standard or altered linkage system. All vehicles fitted with superchargers/blowers must have some means of returning the throttle to a closed position by use of the foot must be or welded fittings on steel cable are not allowed.
- CR77 TOWING RING/HOOK
 - All cars must have some kind of towing ring, tow strap or hook affixed to the front of the vehicle so as to help reduce the time required to clear the track should a vehicle failure occur.

CR78 TOW VEHICLE Any vehicle used as a tow car must have the competition number displayed prominently on the windscreen. Crew members must be inside the cab or completely inside the bed of the truck. Nobody is to be seated on the tailgate, standing on running boards or otherwise. They are all to be seated completely inside the vehicle.

CR79 TRACTION CONTROL

Is permitted CR80 TRANSMISSION

- 80.1 All vehicles in competition must be equipped with reverse gear.
- 80.2 Air shifter bottles must be stamped with Dot-1800-pound rating (minimum) and be securely mounted, i.e., no tiewraps or hose clamps.

CR81 TYRES

- 81.1 Tyres will be visually checked for condition, pressure, etc. and must be considered safe by the scrutineer prior to any runs by the vehicle. Implement tyres are prohibited and all street tyres must have a minimum of 1mm tread depth over 100% of the tread area at the completion of the day's racing.
 - 81.2 All street tyres must be Dot approved with grooves made by the tyre manufacturer.

- 81.3 All vehicles capable of exceeding 260km/h are required to have front tyres specifically built for Drag Racing use, i.e., Goodyear or Mickey Thompson Front Runners etc.)
- 81.4 Any make or type of road tyre, racing tyre or drag slick (see class requirements) is permitted on vehicles slower than 260kph provided the speed rating of the tyre is adequate for that particular vehicle's performance.
- 81.5 Under no circumstances will re-threaded/remolded tyre be allowed on any vehicle.
- 81.6 Either steel or good condition rubber valve stem caps are required on all wheels and tyres.
- 81.7 Tyre pressure should be as per manufacturer's recommended pressure guidelines, but Street Tyres should not below 1,5 bar.
- 81.8 Dot approved tyres with no grooves will be classified as slicks.

CR82 VENT TUBES/BREATHERS

Mandatory on all Top Eliminator vehicles and accepted in all other classes. Where used, the tubes must terminate into an acceptable, permanently attached catch-tank with a capacity of four litres per engine. The catch-tank must be able to keep over-flow off the track and a sight glass or tube is recommended to verify that tank is empty prior to each run.

CR83 WEIGHT

- 83.1 All weights are applicable after a vehicle has completed a run and must include driver.
- 83.2 All Drag Racing venues (when and where applicable) must have available for the duration of a race meeting, a suitable weighing facility in accordance with the requirements of the Drag Racing Commission.
 - 83.2.1 Current certification and/or assessment certificate(s) must be present with the promoters.
 - 83.2.2 Suitable test weigh/s must be available.

ii.

b.

- 83.2.3 The scale/s present on the day shall at the discretion of the Clerk of Course be deemed correct.
- 83.2.4 The weighing and measuring devices used by the event officials shall be the standards that will determine a vehicle's compliance with the rules.
- 83.2.5 It is the onus of the competitor to ensure that his/her vehicle is weighed by officials if/when applicable to ensure their vehicle complies with the correct weights as laid out in the MSA Drag Racing Handbook for the current year e.g.:
 - After every record-breaking run,
 - To class a vehicle, when necessary, prior to the start of the days racing and,
 - Prior to first round of eliminations if a competitor has dialed on the record.

83.3 MINIMUM WEIGHTS

83.3.1 SEDAN CARS (RE: MODIFIED STREET, MODIFIED RACE, STREET CARS, ETC.)

|--|

i. Up to 2600cc Engine Capacity

FRONT WHEEL DRIVE

 Normally Aspirated One Power Adder Two Power Adders 	- -	730kg 820kg 910kg	
REAR WHEEL DRIVE - Normally Aspirated - One Power Adder - Two Power Adders	- -	840kg 870kg 960kg	
ALL WHEEL DRIVE Normally Aspirated One Power Adder Two Power Adders	- - -	840kg 870kg 960kg	
Over 2600cc Engine Capacity ALL VEHICLES	-	1000kg	
ROTARY ENGINES - Normally Aspirated - One Power Adder	-	840kg 950kg	
 Two Power Adders 	-	1000kg	

iii. <u>Light Weight Factory Manufactured</u> All factory manufactured >730kg (subject to verification of lightweight roadsters, such as a "Lotus 7, Atom are permitted in

OEM production form, and it is understood that these vehicles will weigh under 730kg.

CR84	WEIGHT DISTRIBUTION
0104	84.1 Each vehicle must have an adequate percentage of its weight carried on the front wheels to ensure proper handling ability at all times. Additional front-end weight will be required by the scrutineer on vehicles experiencing excessive wheel stands or carrying the front wheels during acceleration.
	84.2 Weight Distribution on FWD vehicles On FWD vehicles special notice needs to be taken of the weight distribution of the vehicle for safety reasons. On de-acceleration or braking, a vehicle that is very light in the rear can become unstable and/or lock the rear wheels during hard braking.
	If the weight distribution (percentage) Front to Rear, of a vehicle falls into the range of (F) 70 (R) 30 to (F) 80 (R) 20, a Parachute is mandatory as a supplementary brake-system regardless of speed attained. If the weight distribution Front to rear, is equal to or greater than (F) 80(R) 20, a parachute AND independently braked rear wheels are mandatory, regardless of speed attained.
CR85	WHEELBASE
	Minimum wheelbase is 2.20 meters. Maximum wheelbase variation from left to right is 50mm. Refer to individual class requirements. 85.1 Cars
	a. All vehicles (except Factory Street) running under 11.999 and not quicker than 10.000, 2.2 meter minimum (Engine swap allowed).
	 All vehicles (except Factory Street) running 9.999 and quicker, 2.3 meter minimum (Engine swap allowed).
CR86	Note: Further restrictions and/or allowances may also apply, refer to individual category requirements.
CR00	WHEEL WELLS:
CR87	See Class Requirements. WHEELS
	87.1 All hubcaps must be removed. Scrutineers must check for loose lugs, cracked wheels, worn or oversize lug
	holds, spindles, axle nuts, cotter pins, etc. Snap-on hubcaps are not permitted on any class of vehicle during competition. Stock mag wheels may use lug nuts as supplied from the factory.
	87.2 Each vehicle must be equipped with automotive-type wheels with a minimum diameter of 325mm unless class regulations state otherwise. Rim width for enclosed, i.e., Sedan, bakkie, Coupe, etc. vehicles must be a minimum of 75mm in width.
	87.3 Motorcycle rims or lightweight automotive wire wheels acceptable on front of Dragster only, provided total weight of vehicle does not exceed 900kg including the driver. Each wire rim must be equipped with 3mm minimum diameter steel spokes properly cross-laced to provide maximum strength. All available spoke holes in rim and hub must be laced, and omissions to lighten wheels are not permitted.
	87.4 Where it can be established that a "beam breaker" shield is required on wire rims, it is mandatory for a competitor to securely and permanently fit a device to clearly cut the start line staging beams before entering a competition.
	 87.5 Maximum rim width on any vehicle is 406mm. 87.6 No rear wheel discs or covers permitted in any category and the use of sports car or automotive wire wheels is
CR88	restricted to vehicles to which they were originally fitted. 87.7 Either steel or good condition rubber valve stem caps are required on all wheels. WHEEL STUDS
ontoo	A wheel stud must protrude from the outer face of the wheel by a distance at least equal to the diameter of the stud. Scrutineers are required to check the fit by removing at least one lug nut on each rim if it is not readily recognizable that
0.000	the stud extends through the rim far enough. The wheel nut may not be encapsulated.
CR89	WHEELIE BARS
	Wheelie bars are permitted as per category regulations. Wheels must be non-metallic. Wheelie-bar wheels must turn freely at starting line, any preload is prohibited. Wheelie bars must be fixed. Hydraulics, pneumatics, electronics, etc. or any adjustment or movement during run is prohibited. Using wheelie-bar wheels as "fifth wheel" sensing device is
	prohibited.
CR90	WINDOW NETS
	90.1 All enclosed vehicles with doors, i.e., Sedans, Bakkies, Coupes, etc.), requiring the use of a "roll cage" must be fitted with a driver-side ribbon-type window net with minimum dimensions of 450mm x 600mm or alternatively properly adjusted arm restraints.
	90.2 Net must be attached to the inside of the roll cage top bar and also to the intrusion bar. The net must be permanently attached at the bottom either by hose clamping to the intrusion bar or some other acceptable method whilst the top must be clipped at each end to eyebolts or a seat belt-type fastener. Chief start line Marshall must ensure competitors have net or restrains correctly fastened before going into stage. Rubber shock cords are not acceptable for mounting net.

CR91 WINDSCREENS AND WINDOWS

- 91.1 On open bodied vehicles, a metal, plastic, or Plexiglas deflector must be installed to divert wind, liquids, foreign matter, etc., over the driver's helmet. The wind deflector must be securely mounted and installed in such a manner that it does not in any way obstruct the driver's frontal view.
- 91.2 Windshields, when called for in class requirements, must be safety glass, Plexiglas, or other shatterproof material. The front screen must be clear, without tinting or coloring except factory-tinted safety glass.
- 91.3 Tinting of side windows cannot be such as to prevent visibility of driver through side windows at night events. Where Funny Cars have full side windows fitted, a 150mm diameter opening must be provided to facilitate access from the outside.

TRUE STREET CAR (TSC) CATEGORY REGULATIONS

TRUE STREET CAR

This category of drag racing vehicle is mainly for championship drag racing events taking place at various venues such as graded tracks that are sanctioned by MSA and consist of timing equipment capable of running both with and without Handicap Racing.

The drag racing dynamic in South Africa is very different to other countries in that we do not have a wide range of purpose-built drag racing vehicles that compete in any of the regulated drag racing series and competition on a regular basis. Pro-mod, Altered and Competition Altered vehicles do exist but are a small percentage of the everyday racing scene. The fact of the matter is that there are simply not enough of these vehicles in every region to run a separate competition based on these vehicle category and class combinations.

The dominant category of vehicle at drag racing events is an OEM production type vehicle where engine upgrades have taken place, but the vehicle remains mostly "Street Legal". Over the years the term "Street Legal" has been stretched to the limit, and in line with the NHRA's dispensation for OEM production type vehicles in their revised 2023 Rule Book, Motor Sport South Africa has adopted the Street Car guidelines.

This category is amended to cater for the "Street Legal" vehicles and is reserved for foreign and domestic OEM production type automobiles, and SUVs and LDVs. All vehicles must be street driven and drivers must carry a valid South African vehicle registration and licensing certificate (disc). For a vehicle to be categorized in the True Street Car Category, the vehicle must pass all stipulations of the South African National Road Traffic Act 93 of 1996 and retain all OEM safety features, therefore making it legal to operate on a public road. Engines component upgrades are permitted, but the swapping of engines to one that is different in specification to the unit supplied in the OEM production model is prohibited. The drivetrain, other mechanical components and tyres may be upgraded or strengthened in accordance with category requirements.

Unaltered OEM, antilock brakes, airbag functions, stock frame\ unibody construction, including floors and firewall, as well as all other OEM safetyrelated systems, must be functioning as per manufacturer's specifications.

This category will restrict the Elapsed Time (ET) of participating vehicles as follows:

- 2014 Current OEM model-year production (EURO NCAP 5 RATED) enclosed vehicles are permitted to run no quicker than 9.000 secondquarter mile (*5.65 eighth mile) and/or faster than 240 kph, without the need for a roll-cage.
- 2008 2013 OEM model-year production (EURO NCAP 5 RATED) enclosed vehicles are permitted to run no quicker than a 10.000 secondquarter mile (*6.40 eighth mile) and/or no faster than 216 kph, without the need for a roll-cage;
- Pre 2008 OEM model-year production enclosed vehicles are permitted to run no quicker than a 12.000 second-quarter mile (*7.70 eighth mile) and/or no faster than 190 kph, without the need for a roll-cage.
- Convertibles quicker than 13.499 seconds-quarter mile (*8.25 eighth mile) and T-tops quicker than a 11.499 second-quarter mile (*7.35 eighth mile) must meet the rollbar and roll-cage requirements.

TRUE STREET CAR CATEGORY consists of Street Legal 12,10,8,6,5, 4-cylinder internal combustion engine vehicles, Electric Vehicles (EV) – Front wheel drive, Rear wheel drive and All wheel drive – Normally Aspirated, one form of supercharging and Rotary's.

MINIMUM WEIGHTS				
SEDAN CARS (RE: MODIFIED ST		ODIFIED RACE, STREET CARS, E		
a.		ERNAL COMBUSTION ENGINES (e)	xcluding	<u>l Rotaries)</u>
	i.	Up to 2600cc Engine Capacity		
		FRONT WHEEL DRIVE		
		- Normally Aspirated	-	730kg
		- One Power Adder	-	820kg
		- Two Power Adders	-	910kg
		REAR WHEEL DRIVE		
		- Normally Aspirated	-	840kg
		- One Power Adder	-	870kg
		- Two Power Adders	-	960kg
		ALL WHEEL DRIVE		
		Normally Aspirated	-	840kg
		One Power Adder	-	870kg
		Two Power Adders	-	960kg
	ii.	Over 2600cc Engine Capacity		
		ALL VEHICLES	-	1000kg
L				
b.		ROTARY ENGINES		9406
		- Normally Aspirated	-	840kg
		- One Power Adder	-	950kg
		- Two Power Adders	-	1000kg
	iii.	Light Weight Factory Manufacture	d	
		All factory manufactured	<u>u</u>	>730kg (subject to verification of OEM weight by the
		lightweight roadsters, such as a		Scrutineers)
		"Lotus 7, A are permitted in OEM		
		production form, and it is		
		understood that these vehicles		
		will weigh under 730kg.		

MODIFIED (M) CATAGORY REGULATIONS

MODIFIED CAR

This category is reserved for four wheeled, moderately, and highly modified production model vehicles, designed only for drag racing. For modified production bodies the basic standard appearance is maintained, engine, driveline, chassis etc., may be altered, modified, as outlined in the category requirements.

These vehicles would typically not be able to pass all stipulations of the South African National Road Traffic Act 93 of 1996 and would not retain all OEM safety features, thus would not be legal to drive on a public road.

The "MODIFIED" vehicle category will consist of 2 (two) "Subcategories."

A. MODIFIED STREET CAR

B. MODIFIED RACE CAR

**If the circuit is not suitable, these classes of vehicles will be restricted to solo runs over a (1/4) quarter mile, but can race heads-up over an (1/8) eighth mile

SEDAN CARS (RE: MODIFIED STREET. MODIFIED RACE, STREET CARS, EIC.) a. INTERNAL COMBUSTION ENGINES (excluding Rotaries) i. Ub to 2600cc Engine Capacity FRONT WHEEL DRIVE FRONT WHEEL DRIVE - Normally Aspirated - - One Power Adder - - Two Power Adders - - - Two Power Adders - - - Two Power Adders - - - Normally Aspirated - - - Normally Aspirated - - - Two Power Adders - - - Two Power Adder - - - Two Power Adders - - - Two Power Adders - - - Normally Aspirated - - - Normally Aspirated - - - Two Power Adders - - - Two Power Adders - - - - 840kg - - Normally Aspirated -	MINIMUM WEIGHTS				
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FRONT WHEEL DRIVE - 730kg - One Power Adder - 820kg - Two Power Adders - 910kg - REAR WHEEL DRIVE - Normally Aspirated - 840kg - Normally Aspirated - 840kg - Normally Aspirated - 840kg - One Power Adder - 870kg - Two Power Adders - 960kg - ALL WHEEL DRIVE - Normally Aspirated - 840kg - One Power Adder - 840kg - Normally Aspirated - 80kg - Normally Aspirated - 1000kg - Normally Aspirated - 840kg - Normally Aspirated - 840kg - Normally Aspirated - 840kg - <t< th=""><th>a.</th><th></th><th></th><th>xcluding</th><th>g Rotaries)</th></t<>	a.			xcluding	g Rotaries)
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understood that these vehicles			production form and it is		
will weigh under 730kg			will weigh under 730kg.		

A – ENGI	NE
MS 1	ENGINE
	1.1 Engine and cylinder head component upgrades or strengthening are permitted, but the swapping of engines different in
	specification to the unit supplied in the OEM production model is permitted.
	1.2 Only one automotive type engine is allowed.
	1.3 Front mounted engine position must be such that the forward most spark plug does not fall behind the front spindle unless
	supplied as standard from the manufacturer.
MS 2	ENGINE RELOCATION
	Relocation of engine is not permitted; i.e. front engine cars may not be converted to rear engine cars and vice versa.
MS 3	BATTERY: (Refer to the Safety Regulations)
MS 4	COOLING SYSTEM: (Refer to the Safety Regulations)
MS 5	EXHAUST: (Refer to the Safety Regulations)
MS 6	NITROUS OXIDE:
10 0	The use of Nitrous oxide is strictly prohibited.
MS 7	FUEL
VIS /	
	Any fuel complying with general regulations. Ethanol is permitted. The use of professionally installed Water Methanol Injection
	systems is permitted. The use of Nitromethane as fuel or separate injection is strictly prohibited. (Refer to Safety Regulations)
VIS 8	FUEL SYSTEM AND FUEL TANKS
	The OEM fuel tank must be retained. The use of aftermarket fuel cells and fabricated fuel tanks is strictly prohibited. Fuel lines can
	be upgraded if Ethanol is used
B – DRIV	
VIS 9	DIFFERENTIAL
	Differential may be upgraded with performance components, such as limited slip differentials (LSD). Narrowed rear-ends are not
	acceptable and locked rear-ends are not permitted. (Refer to the Safety Regulations regarding "axle retention"). Front wheel drive
	cars (as per OEM) may not be converted to rear-wheel-drive cars and vice versa.
/IS 10	TRANSMISSION
	Manual transmissions must be production or aftermarket assembled but must require the use of a clutch to shift gears. Fully
	automatic and clutched automatic transmissions are acceptable. Performance clutches may be used. (Refer to the Safety
	Regulations).
C – BRAł	ES AND SUSPENSION
VIS 11	BRAKES
	All vehicles in this category must be equipped with four-wheel hydraulic brakes operated by a foot-mounted pedal in the
	conventional manner. Aftermarket performance brake rotors and pads may be used, as long as the size of the rotor is not smaller
	than the OEM specification. A back-up brake system is mandatory on all vehicles, i.e. handbrake. (Refer to Safety Regulations)
MS 12	SUSPENSION
	Full automotive-type front suspension is required. No solid axles allowed. Each point of suspension must be equipped with at least
	one effective shock absorber with a minimum of 25mm movement in each direction. Cutting or machining of suspension parts is
	prohibited. Raising or lowering permitted but attention must be taken of minimum ground clearance requirements. A minimum of
	one hydraulic or pneumatic shock absorber is required per wheel and rear suspension must be operative automobile type.
VIS 13	STEERING
	Properly fitted rack and pinion steering may be used in lieu of standard steering.
VIS 14	WHEELIE BARS
	Wheelie bars are not permitted.
) – FRAM	
MS 15	WHEELBASE
10 10	The wheelbase may not be altered from the manufacturer specification.(Refer to Safety Regulations)
VIS 16	ROLL BARS/ROLL CAGES: (Refer to the Safety Regulations)
	S AND WHEELS
MS 17	TYRES
	Any size tyres are permitted providing they do not protrude more than 15mm outside the fender flare measured at the top of the
	tyre. DOT approved tyres and racing slicks will be permitted. Tyre pressure should be as per manufacturer's recommended
	pressure guidelines. No re-treaded, re-moulded or re-grooved tyres will be permitted. (Refer to the Safety Regulations).
MS 18	WHEELS TUBS
	Wheel tubs are not permitted.
E – INTE	
VIS 19	INTERIOR TRIM
	The removal of trim panels, carpets, hood linings and all other OEM trim is permitted, subject to compliance with CR62 and CR63.

ARTICLE – MODIFIED STREET CAR (MS) – REQUIREMENTS AND SPECIFICATIONS

	1.1 Factory seats may be removed, but only if the driver must be replaced with an FIA or SFI approved racing seat and 6-point harnesses, which has been professional fitted and subject to compliance with CR62 and CR63.
MS 21	SAFETY HARNESS: (Refer to Safety Regulations)
F – BODY	
MS 22	AEROFOIL
	This must be securely mounted. If adjustable, a positive locking device must be used to prevent accidental movement.
MS 23	BODY
	23.1 The complete original body must be retained except that the bonnet, fenders, doors, boot may be replaced with components of identical size and shape made from fiberglass, carbon fibre or any similar non-flammable lightweight material.
	23.2 Bodies may not be chopped, channeled, sectioned, or otherwise altered in height, width, or contour. Convertibles, panel vans, bakkies, cars and readily available, locally produced replicas, (i.e. Cobras), may compete in this class providing all requirements are met. All vehicles must have at least two fully operative doors with door handles that permit exit and / or entrance from both sides.
	23.3 Stock automobile chassis for car body used must be retained.
MS 24	BUMPERS
	Bumpers may be removed. Fiberglass bumpers and lightweight mountings are permitted.
MS 25	FIREWALL
	The firewall may not be repositioned or modified in any way from the manufacturer specification.
MS 26	WINDSCREENS AND WINDOWS
	These must be in good condition. All windows must be fully operational. All glassware must be standard as fitted by the manufacturer. No Plexiglas will be allowed unless it can be proved that it was originally fitted by the manufacturer.
G – ELEC	
MS 27	ELECTRICAL
	Each vehicle in this section must have a full working wiring harness. All lights and charging systems must be fully operational. Starter motor must be retained.
MS 28	INSTRUMENTS
	Dashboard is required. Supplementary gauges may be installed at owner's discretion.
H - SUPF	ORT GROUP
MS 29	FIRE EXTINGUISHER
	A minimum of 1,5kg capacity extinguisher, securely mounted (no tie straps), and within easy reach of the driver when he/she is wearing a safety harness is mandatory. (Refer to Safety Regulations).
I – DRIVE	
MS 30	PROTECTIVE CLOTHING: (Refer to Safety Regulations)
MS 31	HELMETS: (Refer to Safety Regulations)
MS 32	GOGGLES: (Refer to Safety Regulations)

ARTICLE – MODIFIED RACE CAR (MR) – REQUIREMENTS AND SPECIFICATIONS

A – ENGI	
MR 1	BATTERY: (Refer to the Safety Regulations)
MR 2 MR 3	COOLING SYSTEM: (Refer to the Safety Regulations) ENGINE
	Must be of an internal combustion type, but capacity, make, model and year are free. Any modification may be made to the engine. Maximum engine set back must not exceed 10% of the wheelbase as measured from the front wheel centre line to the forward most spark plug position.
MR 4	ENGINE RELOCATION
MD 5	Relocation of the engine is not permitted; i.e. front engine cars may not be converted to rear engine cars and vice versa. EXHAUST: (Refer to the Safety Regulations)
MR 5	An open exhaust is permitted. Split manifolds, branches or individual pipes are permitted provided they are permanently and
	securely attached with a metal connecting strap to prevent loss.
MR 6	FUEL
	Any fuel complying with general regulations. Ethanol and Methanol is permitted. The use of professionally installed Water Methanol Injection systems is permitted. The use of Nitromethane as fuel or separate injection is strictly prohibited. (Refer to Safety Regulations)
MR 7	FUEL SYSTEM AND FUEL TANKS
	Accessory tanks may be fitted, and fuel blocks can be used. Any type of mechanical and/or electrical pumps may be used. (Refer to the Safety Regulations)
MR 8	LIQUID OVERFLOW/CATCH TANKS
MR 9	Catch tanks must be fitted and be completely leak-proof and must be securely mounted to a chassis member. NITROUS OXIDE
	The use of Nitrous oxide is permitted. (Refer to the Safety Regulations)
MR 10	OIL CONTAINMENT DEVICE: (Refer to Safety Regulations, CR 51)
MR 11	RADIATOR AND GRILLE
	The Radiator is optional. Grilles are required either in original, painted or fabricated form. The replacements must at least be as large as the original frontal area. Reduction in height or frontal area is not permitted.
B – DRIV	ETRAIN
MR 12	DIFFERENTIAL
	Differential may be upgraded with performance components, such as limited slip differentials (LSD). Narrowed rear-ends are not acceptable and locked rear-ends are not permitted. (Refer to the Safety Regulations regarding "axle retention"). Front wheel drive cars (as per OEM) may not be converted to rear-wheel-drive cars and vice versa.
MR 13	FLYWHEEL/FLYWHEEL SHIELDS: (Refer to the Safety Regulations)
MR 14	REAR END
	Welded spider gears are not permitted. Front drive cars may be converted to conventional rear-wheel drive (Front Engine). Quick change, limited slip or spooled differential assemblies are permitted. The attention of competitors is drawn to the possibility of handling hazards in the event of an axle shaft breaking while the vehicle is fitted with a "locked" rear-end. Four-wheel drive is permitted. (Refer to the Safety Regulations)
MR 15	TRANSMISSION
	Aftermarket or production automobile transmissions of any year, make, model or ratio are permitted in all classes. Operative reverse gear is required. Transmission must remain in conventional location determined by the engine used. All gearshift levers (if used) must be topped with a ball or blunt handle. (Refer to the Safety Regulations) (ES AND SUSPENSION
MR 16	BRAKES
	All vehicles in this category must be equipped with four-wheel hydraulic brakes operated by a foot-mounted pedal in the conventional manner. Aftermarket performance brake rotors and pads may be used, as long as the size of the rotor is not smaller than the OEM specification. A back-up brake system is mandatory on all vehicles, i.e. handbrake. (Refer to Safety Regulations)
MR 17	SUSPENSION FRONT
	Full automotive-type front suspension is required. No solid axles allowed. Each point of suspension must be equipped with at least one effective shock absorber with a minimum of 25mm movement in each direction. Cutting or machining of suspension parts is prohibited. Raising or lowering permitted but attention must be taken of minimum ground clearance requirements. A minimum of
110 12	one hydraulic or pneumatic shock absorber is required per wheel and rear suspension must be operative automobile type.
MR 18	SUSPENSION REAR Aftermarket and/or fabricated four-link and/or ladder bar type suspension is permitted. Back halving is permitted. (Refer to the
115 10	Safety Regulations)
MR 19	STEERING
	Properly fitted rack and pinion steering may be used in lieu of standard steering. Steering units may be relocated and/or substituted. (Refer to the Safety Regulations)
MR 20	WHEELIE BARS

	Wheelie bars are permitted. (Refer to the Safety Regulations)
1R 21	TRACTION BARS: (Refer to the Safety Regulations)
) – FRAM	E
1R 22	BALLAST: (Refer to the Safety Regulations)
R 23	CHASSIS
	The chassis from radiator to rear of vehicle may be totally or partially replaced. Any properly reinforced frame is accepted.
	Additional members may be added for strength and/or roll cage installation. (Refer to the Safety Regulations). The frame may be
	modified to fit any alternative engine/gearbox/differential units.
R 24	ROLL BARS/ROLL CAGES: (Refer to the Safety Regulations)
	A roll cage is mandatory in this category irrespective of ET (Refer to the Safety Regulations)
R 25	WHEELBASE
N 20	
	Wheelbase must not be altered more than 5% from standard measurement. All vehicles in these classes may not have a
	wheelbase variance from left to right of more than 25mm measured from centre of front wheel to centre of rear wheel.
	25.1 All vehicles running 8.99. and quicker, 2.3 meter minimum.
	25.2 Wheelbase may not be shortened more than 1% from original.
	25.3 Wheelbase may not be extended more than 5% from original.
	25.4 Maximum wheelbase variance of 25mm from left to right (measured from centre of front wheel to centre of rear wheel).
R 26	PARACHUTE: (Refer to the Safety Regulations)
– TYRE	S AND WHEELS
R 27	WHEELS/TYRES
	All tyres must have sufficient clearance to allow for body movement and a minimum of 100mm all-round must be allowed for tyre
	growth. Magnesium and other alloy racing wheels are permitted. Any type of road tyre or slick is permitted providing the speed
	rating is adequate for the vehicle performance. (Refer to the Safety Regulations)
R 28	WHEELS TUBS
	Wheel wells or tubs may be enlarged or replaced to allow use of larger rear tyres. If new wheel wells are constructed, they shall
	completely cover the inside and top 180° of the wheel and tyre and also completely isolate the driver compartment.
– INTEF	Completely server and mode and top foor of the wheer and type and also completely isolate and anyor comparations.
R 29	INTERIOR TRIM
N 29	The removal of trim panels, carpets, hood linings and all other OEM trim is permitted.
20	
R 30	SEATS: (Refer to the Safety Regulations)
R 31	SAFETY HARNESS: (Refer to Safety Regulations)
R 32	UPHOLSTERY
2021	Upholstery is optional but where used, must be of fireproof material.
– BODY	
R 33	BODY
	33.1 Must be a production car body with at least two driver exit or entry points. Bodies may be altered in height to a maximum of
	100mm but not in width, length, or contour. Streamlining must not change the outward appearance of the vehicle. Bumpers are n
	required. Sedan, coupe, convertibles, roadsters, panel vans and bakkies may all compete in this class providing all requirements
	are met.
	33.2 The use of fiberglass, carbon fibre or aluminum replacement panels is acceptable providing the vehicle's standard
	appearance is retained. Body set back must not exceed 10% of the original wheelbase as measured from rear axle to centre of the
	original wheel well location. Rear wheel wells may be altered for clearance to permit the use of larger tyres, but new edges must l
	adequately beaded.
	33.3 Replacement floors are permitted providing a cross member of a minimum 50mm x 3mm wall thickness is installed between
	the frame rails for adequate driver's seat and harness anchoring.
	33.4 In certain instances a steel or aluminum floorboard may be substituted with a Carbon Fibre or Kevlar panel, for example FW
	vehicles with tubular rear sub-frame/suspension for coverage. Refer to CR18, 26.
	33.5 All vehicles are required to fit a bonnet of standard appearance through which bonnet scoops, injector tubes or supercharge
	are permitted to extend.
R 34	STREET EQUIPMENT
	Alternator, windshield, wipers, fans, fan belts, horns, etc., are optional. Headlights must be original size and in original location but
	need not be operative. Painted or simulated headlights are permitted however a minimum of one operative red taillight is required
	for night events.
R 35	BUMPERS
1.00	Bumpers may be removed. Fiberglass bumpers and lightweight mountings are permitted.
0.00	FIREWALL
R 36	
	Mandatory. (Refer to the Safety Regulations)
R 37	WINDSCREENS AND WINDOWS
101	37.1 A windscreen must be fitted on all vehicles. Minimum height of front screen is 125mm as measured vertically. All windscreen

	the above conditions. The placing of advertising or other decals on either the front windscreen or front side windows must be restricted to a maximum of the top or bottom 10% of the area so as not to obstruct the visual passage of the driver.
G – ELECT	RICAL
MR 38	ELECTRICAL
	Each vehicle in this section must have a full working wiring harness, but the harness may be safely modified from OEM specification. All lights and charging systems must be fully operational. Starter motor must be retained.
MR 39	INSTRUMENTS
	Dashboard instruments may be installed at the owner's discretion.
H – SUPPO	DRT GROUP
MR 40	FIRE EXTINGUISHER
	A minimum of 1,5kg capacity fire extinguisher is mandatory, securely mounted (no tie straps), and within easy reach of the driver when he/she is wearing a safety harness is mandatory. (Refer to Safety Regulations)
I – DRIVER	
MR 41	DRIVER
	The driver's body must be completely isolated from the driveline, differential and wheels by suitable non-flammable body panels. The seat may be relocated a maximum of 200mm back from the standard position and must be mounted either left or right of the centre line.
MR 42	HEAD PROTECTION: (Refer to the Safety Regulations)
MR 43	PROTECTIVE CLOTHING: (Refer to Safety Regulations)
MR 44	HELMETS: (Refer to Safety Regulations)
MR 45	GOGGLES: (Refer to Safety Regulations)

STREET TO STRIP DRAG RACING

This category of drag racing is solely for non-championship events, "Street to Strip" or "Illegal to Legal" drag racing events-taking place at various venues such as graded tracks that are sanctioned by MSA. This category is racing held to promote safety and encourage drivers/riders to bring their daily driven/ridden street vehicles to a circuit and discourage illegal street racing. The use of slick or drag radials are strictly prohibited. Category Modified vehicles will not be allowed in street to strip drag racing events due to safety reasons.

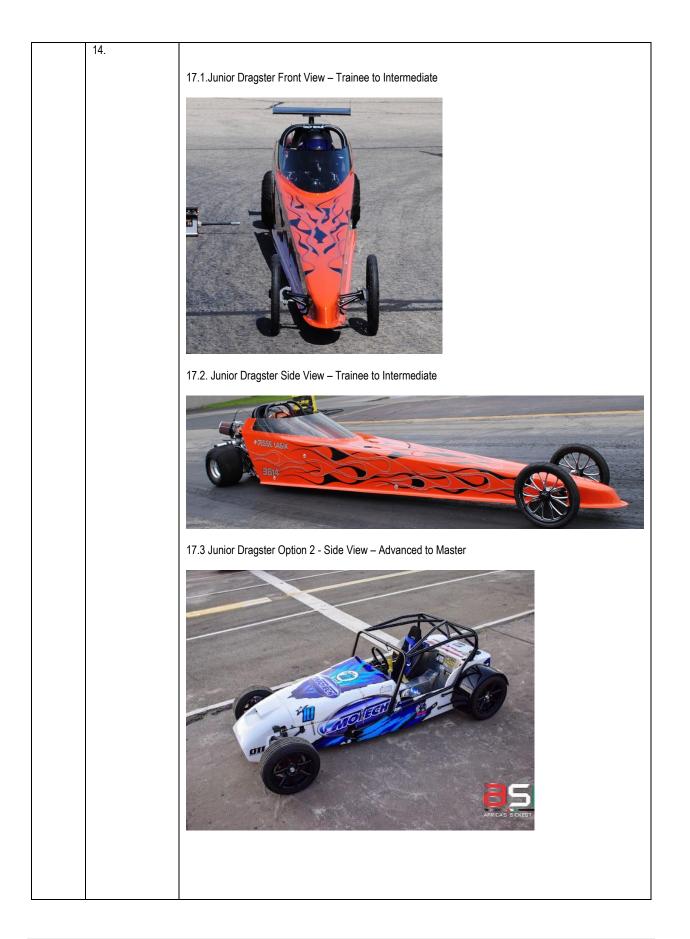
This category has been introduced to cater for basically stock vehicles strictly in full street trim, with street tyres. It is reserved for vehicles based on normal production models with a factory produced automotive-type engine. The body, drive train, chassis and other components may not be altered or modified. This category-must run heads up as individual classes. The minimum cut off in this category is 10.000 seconds and the maximum will be > 14.000 seconds over a (1/4) quarter mile. Any vehicle/s running quicker than 10.000 seconds, will be prohibited from any further runs due to safety reasons. Any circuit that is hosting street to strip events must have timing equipment capable of monitoring competitors to ensure that the 10.000 second ET cutoff is enforced and adhered to.

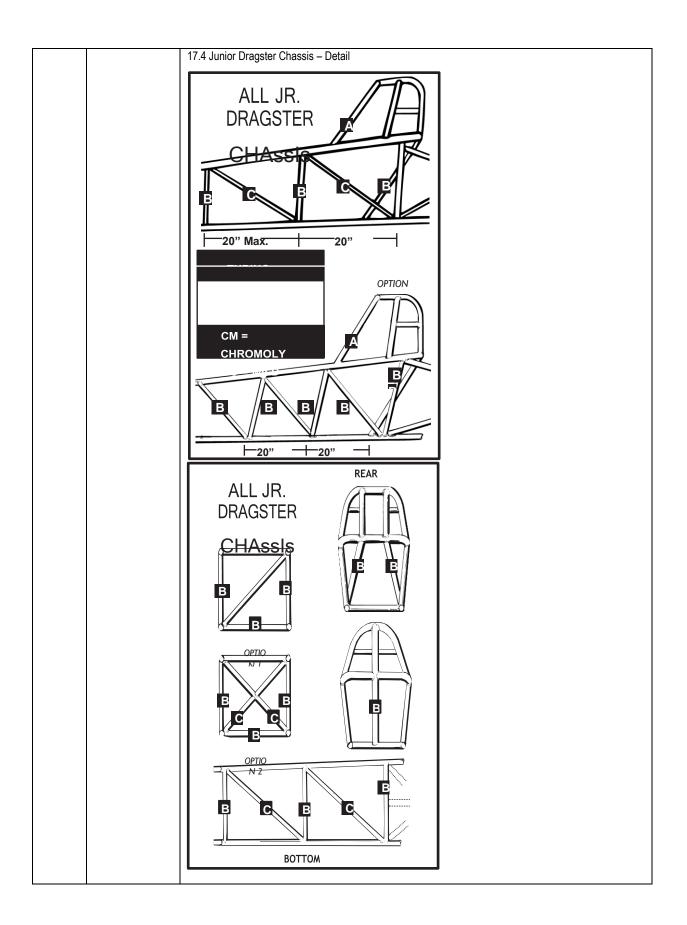
CLASSES: There are (25) twenty-five classes of competition determined as follows:	
8 CYLINDERS	
8A	Any 8-cylinder normally aspirated.
8B	Any 8-cylinder with one form of supercharging (i.e. turbo or nitrous or supercharger)
8C	Any 8-cylinder fitted with two forms of supercharging (i.e. turbo/nitrous, supercharger/nitrous).
8AWD	Any 8-cylinder [AWD] with one forms of supercharging (i.e. turbo/nitrous, supercharger/nitrous).
	6 CYLINDERS FRONT AND REAR WHEEL DRIVE
6AF	Any 6-cylinder [FWD] normally aspirated
6BF	Any 6-cylinder [FWD] with one form of supercharging (i.e. turbo or nitrous or supercharger)
6CF	Any 6-cylinder [FWD] with two forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
6AR	Any 6-cylinder [RWD] normally aspirated
6BR	Any 6-cylinder [RWD] with one form of supercharging (i.e., turbo or nitrous or supercharger)
6CR	Any 6-cylinder [RWD] with two forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
6AWD	Any 6-cylinder [AWD] with one forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
	5 CYLINDERS FRONT AND REAR WHEEL DRIVE
5AF	Any 5-cylinder [FWD] normally aspirated
5BF	Any 5-cylinder [FWD] with one form of supercharging (i.e., turbo or nitrous or supercharger)
5CF	Any 5-cylinder [FWD] with two forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
5AR	Any 5-cylinder [RWD] normally aspirated
5BR	Any 5-cylinder [RWD] with one form of supercharging (i.e., turbo or nitrous or supercharger)
5CR	Any 5-cylinder [RWD] with two forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
5AWD	Any 5-cylinder [AWD] with one forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
	4 CYLINDERS FRONT AND REAR WHEEL DRIVE
4AF	Any 4-cylinder [FWD] normally aspirated
4BF	Any 4-cylinder [FWD] with one form of supercharging (i.e., turbo or nitrous or supercharger)
4CF	Any 4-cylinder [FWD] with two forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
4AR	Any 4-cylinder [RWD] normally aspirated
4BR	Any 4-cylinder [RWD] with one form of supercharging (i.e., turbo or nitrous or supercharger)
4CR	Any 4-cylinder [RWD] with two forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).
4AWD	Any 4-cylinder [AWD] with one forms of supercharging (i.e., turbo/nitrous, supercharger/nitrous).

JUNIOR REGULATIONS

JUNIOR	CLASS CARS	
	Status	Regional and Club Status
	1.	Age Restrictions and Junior Car Categories (Adapted from the NHRA Junior Drag Racing Regulations 2024)
		Intermediate and Advanced category may compete in Club and Regional Status events only.
		All Junior competitors must submit a certified birth certificate on all new licence applications. Subsequent renewals do not require resubmission of certified birth certificate. Willfully falsifying an MSA licence and/or participation documents for any reason including avoiding age restrictions will be grounds for denial of license, suspension or revocation of license, or other action deemed appropriate by MSA in MSA's sole and absolute discretion, including but not limited to exclusion from all MSA permitted events. Driver must be the minimum age for the Age Group class (i.e., to run in the 10-year-old class, the driver must have already celebrated his or her 10th birthday). Likewise, a driver can compete in a lower Age Group class if his or her birthday falls after Jan. 1 of the current year (i.e., a driver who turned 13 on July 1 can compete as a 12-year-old through the entire calendar year).
	2.	INTERMEDIATE: ages 10 to 12; dial-in restricted to 8.900 seconds over the ¹ / ₈ th mile and 13.92 seconds over the ¹ / ₄ mile or slower based on either an e.t. dial-your-own or heads-up basis; breakout rules apply. In qualified events, no competitor can qualify quicker than 8.900 or 13.920. Any competitor running quicker than 8.898 e.t. in the ¹ / ₈ th mile and 14.050 in the ¹ / ₄ mile or at any time during an event will receive one
		warning unless the Clerk of The Course feels further action would be appropriate. If the same competitor runs quicker than 8.898 e.t. in the eighth mile or 14.050 in the ¹ / ₄ mile again at the same event, he or she will be disqualified for the remainder of the event and may face further action deemed appropriate by MSA in MSA's sole and absolute discretion. Any competitor running quicker than 8.800 e.t. in the eighth mile or 13.770 in the ¹ / ₄ mile at any time during an event will be immediately disqualified for the remainder of the event and may face further action deemed appropriate by MSA in MSA's sole and absolute discretion. Any competitor running quicker than 8.800 e.t. in the eighth mile or 13.770 in the ¹ / ₄ mile at any time during an event will be immediately disqualified for the remainder of the event and may face further action deemed appropriate by MSA in MSA's sole and absolute discretion. Penalties will be imposed regardless of whether the infraction(s) occur during dial in, qualification or
		eliminations. Accepted aftermarket engines for Novice, Intermediate, Advanced and Master classes: Metro Racing flathead, McGee Racing flathead, Tecumseh flathead, LPW Racing Products monster racing block, JR Race Car flathead, Pure Power Racing flathead, M-1 Machine racing block, SR71 Racing Block by Soltz Racing, Huddleston Performance Sniper, R&S Machine Terminator, TRS block, and Briggs & Stratton 206 factory-sealed engine (with a red, blue or black slide valve) Chassis must be a purpose built junior dragster as per the images in section 14 and Appendix J
	3.	ADVANCED: ages 13 to 15; dial-in restricted to 7.900 seconds over the ¹ / ₈ th mile and 12.400 seconds over the ¹ / ₄ mile or slower based on either an e.t. dial-your-own or heads-up basis; breakout rules apply. In qualified events, no competitor can qualify quicker than 7.900. See also Breakout Rules in Race Procedures. Any competitor running quicker than 7.898 e.t. in the eighth mile or 12.390 over the ¹ / ₄ mile
		will be disqualified from the event. Any competitor running quicker than 7.800 e.t. in the eighth mile or 12.240 over the ¼ mile at any time during dial in, qualification or eliminations will be disqualified from the event and will be subject to additional disciplinary action in the sole and absolute discretion of MSA. Any OEM engine not exceeding 1600cc. Chassis limited to Lotus 7 type chassis or similar or purpose-built junior dragster as per the images in section 14 and Appendix J
	4.	MASTER: Ages 16 to 18; dial-in restricted to 7.250 seconds over the ¹ / ₈ th mile and 11.400 seconds over the ¹ / ₄ mile or slower based on either an e.t. dial-your-own or heads-up basis; breakout rules apply. In qualified events, no competitor can qualify quicker than 7.248 seconds over the ¹ / ₈ th mile and 11.398 seconds over the ¹ / ₄ mile. Any competitor running quicker than 7.150 e.t. in the eighth mile or 11.250
		seconds over the ¼ mile. Any competitor furning ducker than 7.150 e.t. in the eighth mile of 11.250 seconds over the ¼ mile will be disqualified from the event. Any competitor running quicker than 7.150 e.t. in the eighth mile or 11.250 seconds over the ¼ mile at any time during dial in, qualification or eliminations will be disqualified from the event and will be subject to additional disciplinary action in the sole and absolute discretion of MSA. Any OEM engine not exceeding 2000cc, no restriction on chassis
	5.	Burnouts and Peel outs are permitted.

6.	Only True Street Car, Modified Street Category Cars and purpose-built Junior Dragsters are permitted, and the proposed vehicle will be subject to a full scrutineering by a senior licensed Chief Scrutineer or Technical Consultant. Modified Race Category cars are strictly prohibited.
7.	All motors to be naturally aspirated. (No forced induction i.e. turbo charged, super charged or nitrous assisted)
8.	The numbers must have the letter "J" prefixed.
9.	Junior competitors can run heads up with any competitor as long as that car is 11.400 seconds or slower over a standing ¼ mile.
10.	At the discretion of the Clerk of the Course and the Safety Officer, junior competitors can be restricted to solo runs only depending on conditions of the circuit including but not limited to surface, run off area and etc.
11.	Driver and Vehicle Evaluation
	All junior competitors must be formally evaluated in terms of their driving skill and ability, in the vehicle that has been passed for competitive use by the Chief Scrutineer or Technical Consultant, prior to the issuing of a junior license.
	The junior driver will be evaluated by any Grade A Drag Racing Clerk of the Course or drag racing driver with more than 5 years proven drag racing experience at a competitive level, approved by the National Drag Racing Working Group. Particular emphasis will be placed on the junior competitor's ability to launch the vehicle, perform gear shifts while maintaining full control and brake satisfactorily after the finish line, over a standing ¼ mile.
12.	Driver Evaluation Criteria:
	 A minimum of 2 consecutive "successful ¼ mile passes" are required on the day of evaluation to be deemed competent. A successful ¼ pass is defined as follows: Launch the vehicle from the start line without stalling. Change / engage every gear over the entire ¼ mile without missing a gear if the vehicle is
	 equipment with a manual transmission. Not applicable if the vehicle is equipped with an automatic transmission Keep the vehicle in a straight line over the entire ¼ mile.
	- Demonstrate the ability to release the safety harness and exit the vehicle in 10 seconds or less Bring the vehicle to a complete stop before the end of the runoff area without locking or screeching the brakes.
13.	Failure to execute the requirements in point 15 above will constitute a failure, but the competitor will be afforded two attempts of the above requirements on the day. If the competitor is unable to control the vehicle on the launch, the competitor moves side to side over the ¼ mile, fails to bring the vehicle to a complete stop or any combination as prescribed above, it will be deemed as an automatic failure. The regional working group representative must nominate





DRAG RACING RULES

MOTORCYCLES

Regional/Club Motorcycle Drag Racing will consist of (5) five categories as listed below.

SS: Supersport Shootout SB: Superbike Elimination P/ST: Pro Street TB: TOP BIKE Q: Quads (Bracket Class)

Age limits for classes as per SSR 1 for circuit racing.

The primary objective is to become the overall winner in the class. A series of two-bike, tournament style eliminations is conducted. The losing motorcycle in each race is eliminated, and the winning rider progresses into succeeding rounds of the competition. The series of races continues until one winning rider remains. That rider is declared the class winner. SS, PST and Top Bike will run heads up. SB and Quads will run on a handicap bracket racing system. Environmental mats are compulsory as per the environmental code in the GCR handbook.

GENERA	L RULES
1.	BATTERIES
	Must be securely mounted.
2.	BREATHERS
	OEM or additional oil breather may be fitted.
3.	CHAIN GUARD
	Full length chain guards are mandatory.
4.	CLOTHING
	All riders will wear a full-face helmet with visor that meets SABS specification. All riders will wear a full leather race suit, one piece or two-piece, full leather gloves and leather boots which have ankle protection.
5.	ENGINE
	Nitrous Oxide may not be used in conjunction with any turbocharged or supercharged entrants.
6.	FUEL SHUT OFF VALVES
	All motorcycles will have an electrical or mechanical fuel shut off system subject to "TC" approval.
7.	HANDLEBARS
	Must be OEM or a registered aftermarket substitute.
8.	IGNITION
	Positive kill switch must be fitted on the handlebars.
9.	LIGHTS
	For night racing, motorcycles must have functional front and rear lights and must be clearly visible.
10.	MIRRORS
	Must be removed.
11.	MUDGUARDS
	Front mudguards must be fitted. Rear mudguards may be removed.
12.	STEERING STOPS
	Minimum of 5 mm between thumb and tank at full lock.
13.	THROTTLE
14	Must be spring loaded to the closing position. No overrides are permitted.
	Minimum of 1mm tread depth at the commencement of the race meeting.
OTHER	· · · · · · · · · · · · · · · · · · ·
15.	NUMBER BOARDS
	The number board must be placed on the swing arm on both sides of the motorcycle. The letter size must be 40 mm high x 10 mm thick. The number size must be 80 mm high and 20 mm thick black on a white background. Number boards must be a minimum of 200 mm wide x 150 mm high. The number board must display the class designation and competitor's number. No white shoeshing

thick. The number size must be 80 mm high and 20 mm thick black on a white background. Number boards must be a minimum of 200 mm wide x 150 mm high. The number board must display the class designation and competitor's number. No white shoeshine numbers will be allowed at National events. All competitors must carry series sponsors on the number boards, should there be any. If series sponsors are not displayed on the number board the competitor will not be disqualified.

16. QUALIFYING

	SS, SB, PST motorcycles and Quads must do a minimum of 1 qualifying run in each lane e.g., qualifying run 1 in left lane, qualifying run 2 in right lane.
17.	TECHNICAL INSPECTION

All motorcycles entered must pass scrutineering and riders must comply with and pass an MSA race gear safety inspection.

SUPERSPORT SHOOTOUT

Whatever is not specifically allowed is disallowed.

Minimum Age: 16 years

Heads-up racing only.

Category designation "SS" followed by competitor's race number.

ARTICLE	
ARTICLE	BRAKES
1	
0	OEM only. Pads and hoses may be replaced.
2	CHAIN GUARD
0	Mandatory.
3	CLUTCH
4	Clutch plates and springs may be replaced with aftermarket parts provided the number and type of plates is as per standard machine. Aftermarket quick access clutch cover is allowed. No slider or lockup clutches allowed. Modification or replacement of the OEM back torque limiting slipper clutch components is only allowed. OEM clutch basket (outer) and OEM clutch hub (inner). CONTROLS
	Handlebars may be modified.
5	ELECTRICAL
5	May be modified or replaced. Charging system must operate. Engine must start with own OEM starter. Battery may be moved or
	replaced. For night racing, motorcycles must have an operational front light to be minimum diameter of 40 mm and white in colour. Rear light must be a minimum of 40 mm diameter, red in colour. Both must be clearly visible. Motorcycle must start under own power. Modifications to the stock starting and charging systems are not allowed. OEM starters and complete charging system must be in place, connected and functional during the event.
6	ENGINE
	Bore and Stroke are allowed to be 1 (one) oversize ONLY.
	Note: Except as noted or stated. External engine parts and mounting points must remain OEM as per make and model.
7	EXHAUST
	May be modified or replaced.
8	EXTERNAL GEAR RATIOS/GEARING
	No restrictions to sprockets and chain.
9	FAIRINGS
	May be modified or replaced. OEM silhouette only. Aftermarket fairings/bodywork may be used but must conform to the original silhouette. Holes may be cut in the fairing to accommodate the exhaust system should you use a sidewinder. Mirrors and indicators may be removed. Passenger seat pad may be removed and replaced with OEM cover. Fairings must be mounted in original mounting points. Screens may be modified or replaced. OEM lights may be removed.
10	FRAME
	Swing arm allowed to be extended. Centre of back wheel are not allowed to move more than 16 (sixteen) cm.
11	FUEL
	Must comply with AMA specification.
12	FUEL INJECTION
	May be modified.
13	FUEL TANK
	No modification. May be filled with Explosive Foam.
14	GEARBOX
	OEM only. No modifications. Undercutting of gears is allowed. No OTHER modification allowed.
15	GEARSHIFT SYSTEM
	May be modified for race pattern type gear change. An electronic inline cutout system operated by the gear linkage may be fitted.
16	GROUND CLEARANCE
. •	Minimum of 50 mm with the rider seated on the motorcycle, feet on the foot pegs and a minimum of 0.7 bar pressure in each tyre.

17	IGNITION SYSTEM
	Must have OEM ignition with OEM ECU. Piggyback system allowed i.e. Power Commander and White Band. No launch control or stutter boxes allowed.
18	INDUCTION
	Internal modification to the throttle bodies is allowed. No aftermarket turbo or nitrous system allowed. Air filter may be removed or replaced. Air box and intake pipes to remain as per the standard OEM motorcycle.
19	REARSETS AND PEDALS
	May be modified or replaced. Passenger foot pegs and mounts may be removed.
20	SEAT
	May be modified or replaced.
21	SUSPENSION
	May be modified. Strapping is allowed. Weight may be added to the front forks ONLY if swing arm is not extended, to a maximum of 5 kgs per side and must be securely mounted with a minimum of 2 x 8 mm bolts per weight.
22	TYRËS
	Only DOT approved road tyres allowed. No Slicks.
23	WATER PUMPS
	External water pumps will be permitted.
24	WHEELS
	OEM only. Polishing and painting is permitted. Lightening or skimming of wheels is not allowed.
25	WHEELBASE
	Wheelbase can be extended 16 (sixteen) cm from OEM position.

SB CATEGORY REGULATIONS

SUPERBIKE ELIMINATION

Whatever is not specifically allowed is disallowed.

Minimum Age: 16 years

Bracket Racing only

Normally Aspirated Only!

DIAL – IN

All competitors will enter a dial-in time within 1% of their best qualifying time. If a time is not entered the rider will be disqualified. The maximum dial-in time will be 13.50 seconds. Rider must qualify in both lanes.

There is no Record in this class and therefore all breakout rules apply.

Category designation "SB" followed by competitor's race number.

ARTICLE	
1	BRAKES
	OEM only. Pads and hoses may be replaced.
2	CHAIN GUARD
	Full length is mandatory.
3	CLUTČH
	OEM only. Plates and springs may be replaced.
4	ECU
	Flashing is allowed to optimize settings.
5	ELECTRICAL
	OEM starters and complete charging system must be in place and functional and for night racing, motorcycles must have OEM headlight and taillight connected and functional during the event. OEM wiring harness to be used.
6	ENGINE
	Internal modifications only.
7	EXHAUST
	May be modified or replaced.
8	EXTERNAL GEAR RATIOS/GEARING
	No restrictions to sprockets and chain.
9	FAIRINGS
	OEM only. Fairings may not be altered or removed. Mirrors and indicators may be removed. Passenger seat pad may be removed and replaced with OEM cover. Fairings must be mounted in original mounting points.
10	FRAME
	No modification. Must have VIN plate. Rear number plate holder may be removed.
11	FUEL
	Must comply with MSA GCRs.
	Any commercially available 93 & 95 octane pump fuel are allowed (Shell, Sasol, Engen, Total), 97 octane VP Racing Fuels (MR9
1.0	and MR12).
12	FUEL TANK
10	No modification. May be filled with Explosive Foam.
13	GEARBOX
	OEM only. No modifications. Undercutting of gears is allowed. No OTHER modification allowed.
14	GEARSHIFT SYSTEM
4 5	May be modified for race pattern type gear change. Quick shifters allowed.
15	GROUND CLEARANCE
	Minimum of 50 mm with the rider seated on the motorcycle, feet on the foot pegs and a minimum of 0.7 bar pressure in each tyre.

16	IGNITION SYSTEM
	No modifications. Must have OEM ignition with OEM. ECU's and standard wiring harness. The use of "Power Commander" and "Wide Band" is allowed. No launch control or stutter boxes allowed, however, if OEM, it will be allowed (i.e., new Yamaha R1 and BMW S1000RR)
17	INDUCTION
	Internal modification to the throttle bodies is allowed. No aftermarket turbo or nitrous system allowed. Air filter may be replaced. Air box and intake pipes to remain as per the standard OEM motorcycle.
18	REARSETS AND PEDALS
	May be modified or replaced. Passenger foot pegs and mounts may be removed.
19	SUSPENSION
	May be modified. Weights and or strapping is allowed. Linkage may be modified or replaced. Solid struts not allowed. Aftermarket rear shocks allowed, e.g., Ohlin's.
20	SWING ARM
	Motorcycles manufactured before 1990 may use an OEM swing arm from another model of the same manufacturer. Swing arms must be OEM and remain original specification for the make and model and year of motorcycles concerned.
21	TYRES
	Only DOT approved road tyres allowed. No Slicks.
22	WATER PUMPS: External water pumps not allowed.
23	WHEELS
	OEM only. Polishing and painting is permitted. Lightening or skimming of wheels is not allowed.
24	WHEELBASE
	Wheelbase must be OEM as per make and model of the motorcycle concerned

PST CATEGORY REGULATIONS

PRO-STREET BIKES

Whatever is not specifically allowed is disallowed.

Minimum Age: 16 years

Heads-Up Racing only

Category designation "PST" followed by competitor's race number.

ARTICLE	
ANTIGLE	BRAKES
1	OEM or better. Pads and hoses may be replaced. Subject to "TC" approval.
2	CATCH PAN
2	
	Must be equipped with a ballistic oil blanket or catch pan. The blanket or pan must cover the lower section of the engine. The
0	catch pan must be able to hold all the oil from the engine.
3	CHAIN GUARD
	Full length is mandatory.
4	CLUTCH
	May be modified or replaced.
5	ELECTRICAL
	May be modified or replaced. Charging system must operate and may be assisted with external charging system. Engine must
	start with own OEM starter. Battery may be moved or replaced. For night racing, motorcycles must have operational front and
	rear lights with a minimum diameter of 40 mm. Front light to be white in colour, rear light to be red in colour and must clearly
	visible. OEM lights may be removed or replaced. Motorcycle must have hand strapped kill switch, maximum length of strap to be
	500 mm. Use of control devices to prevent front wheel lift or launch control or 2-step system or stutter boxes are not allowed.
6	ENGINE
	Internal modifications only.
7	EXHAUST
	May be modified or replaced.
8	EXTERNAL GEAR RATIOS/GEARING
	No restrictions to sprockets and chain.
9	FAIRINGS
	May be modified or replaced. Seat and tail section may be modified or replaced and must be extended to cover the rear wheel.
	Original profile of the motorcycle to be retained.
10	FRAME
	OEM only. Modifications for strengthening the frame allowed. Accessory brackets may be removed or replaced. Frames may be
	polished. All modifications subject to "TC" approval.
11	FUEL
	Must comply with AMA specification.
12	FUEL TANK
	May be modified or replaced. Must retain original shape. Sloping at the rear of the tank is allowed.
13	GÉARBOX
	May be modified or replaced. No automatic transmissions allowed. Air or electric shifters allowed.
14	GROUND CLEARANCE
	Minimum of 50 mm with the rider seated on the motorcycle, feet on the foot pegs and a minimum of 0.7 bar pressure in each tyre
15	IGNITION SYSTEM
	May be modified or replaced.
16	INDUCTION
	Turbo or supercharger or nitrous oxide system allowed.
17	NITROUS OXIDE MOTORCYCLES
	Nitrous bottles to be fitted to nitrous motorcycles only and must be securely mounted within the frame rails and mechanically
	fastened. Hose clamps prohibited.
18	REARSETS AND PEDALS
10	May be modified or replaced. Passenger foot pegs and mounts may be removed.
	אומץ של הוסטווולט טו ולקומכלט. המספרוקבו וסטו עלשי מות הוסטווני וומץ של ולוווטילט.

19 SUSPENSION

	Front forks may be modified. Rear suspension may be modified or replaced. Swingarm may be modified or replaced. Original mounting points must be used and may be enlarged. Solid struts or wheelie bars are not allowed. Ballast may be added.
20	TURBO OR SUPERCHARGE MOTORCYCLES
	Turbo or Supercharged motorcycles may not have any nitrous oxide fitted to the motorcycle. Turbocharged or Supercharged entrants are prohibited from using nitrous as a cooling source.
21	TYRES
	Front tyre must be DOT approved road tyre. Rear tyre must be DOT approved road tyre or maximum 7 inch wide slick.
22	WATER INJECTION
	Competitors using water injection may only pressurize the water tank with air. The water tank must be mounted in a manner as to allow easy access for the "TC" to inspect its contents. No other substance other than water is allowed to be in the tank.
23	WHEELBASE

Maximum 1727 mm. Measured from centre front axle to centre rear axle.

TB CATEGORY REGULATIONS

TOP BIKE

Minimum Age: 18 years

Heads-Up Racing only

QUALIFYING:

Riders of TB must hold a MSA Top Class license of P/ST

Category designation "TB" followed by competitor's race number.

Reserved for the top classes of bikes currently in SA, Funny Bike, Pro Stock or Pro Mod as in AMA Prostar rules and comply with the rules below. Top Fuel is excluded in this class. It is for single-engine motorcycles, turbocharged Nitrous, alcohol or gasoline. Modifications are unlimited with no appearance restrictions. Turbo and blowers will be considered the same. Turbo and Nitrous Permitted. All bikes must have front and rear fenders. Normally TB is run "heads up" with a qualified field up to 4 motorcycles.

ARTICLE					
ARTICLE 1	BODY				
1	All main body parts must have stock appearance and shape and cannot be mixed among models. Fairings must match body				
	design (I.e., Suzuki body with Suzuki fairing, Kawasaki body with Kawasaki fairing, etc.) rear wings prohibited. For night racing,				
	motorcycles must have working head and taillights				
2	BRAKES AND SUSPENSION				
2	2.1 Brakes				
	Hydraulic type, front and rear, mandatory. Minimums: front: dual, 203 mm (8 inches) diameter x 3/16-inch width,				
	single 254 mm (10 inches) diameter x 3/16-inch width. Rear brake rotor minimum 254 mm (10 inches) diameter x				
	3/16 inch thick with single rotor front brake, 203 mm (8 inches) diameter x 3/16 inch thick with dual rotor front brake.				
	Line-loc prohibited.				
	2.2 <u>Suspension</u>				
2	Only ridged suspension on rear allowed, at least 25 mm travel on the front forks.				
3	Accepted aftermarket cases permitted using original crankshaft design (I.e., roller bearing or plain bearing). Original cylinder head				
	design must be used. Cases must fit in stock engine location. Aftermarket cylinder heads permitted with prior approval and consent				
	of the MSA bike technical department.				
4	FRAME CONSTRUCTION				
	4.1 All welding shall be TIG Heliarc method. Material should be 4130 chrome molly steel. The minimum diameter for all				
	sections, except braces, brackets, and gussets, shall be 25 mm (1 inch). If the top main tube is of a one-piece design,				
	it must be a minimum of 50 mm (2 inches) in diameter. Minimum wall thickness of all tubing is 1.5 mm (0.58 inches).				
	Aluminum chassis are prohibited without prior approval by MSA bike technical department 1,727 mm (0.68 inch)				
	minimum wheelbase. Wheelbase 2.082 mm (82 inch) maximum. Stock Minimum seat height (with rider in position				
	 and seat compressed) measured from lowest point of seating position to ground, 400 mm. Wheelbase measurements will be done as follows: Measure from the center of the front axle in a straight line to the 				
	center of the rear axle at the most extendible point on the swing arm.				
5	FUEL				
	Progressive nitrous permitted. Steel braided fuel lines mandatory on all pump driven fuel systems. All non-braided fuel lines must				
	be fastened with a metal clamp, band, or fitting (no wire). Be careful not to over tighten. Fuel must comply with AMA specifications.				
6	KILL SWITCH				
	When the lanyard is pulled, ignition, fuel pump and nitrous solenoids must be disarmed.				
7	RIDER				
	7.1 <u>Handling Problems</u>				
	Any motorcycle deemed to have questionable handling characteristics may be required, before further competition, to make a solo pass during qualifying to demonstrate motorcycle and rider stability. Terms and conditions of pass				
	will be determined on an individual basis. If a rider crosses the centerline or outer boundary line for a second time				
	in qualifying, the rider will be disqualified from that event.				
8	STEERING DAMPER				
	Mandatory on all bikes and may not act as fork stops.				

9 TYRES & WHEELS

Minimum rear tyre size width is 254 mm (10 inches), maximum rear tyre width 305 mm (12 inches). All car tyres must utilize a bead lock or screw tyres to wheel. Bead lock highly recommended.

9.1 <u>Wheels</u>

Front wheel must be minimum 406 mm (16 inches) diameter. It is highly recommended that all car tyres utilize a bead lock or rim screws, to attach tyres to wheel. Non-bead lock wheels should utilize locking screws and should be installed at 45-to-90-degree angle in addition to side-mounted screws only. It is recommended that drag slick mounting screws are only used to prevent tyre bead from unseating at high speed. Follow instructions from screw manufacturer. Holes drilled in wheel must have enough clearance to allow screws to pass freely through wall. Four screws per side minimum with eight per side recommended. For safety, tyre width should not exceed rim width by more than two inches, bead seat to bead seat.

11 WHEELIE BARS

Mandatory in TB class for safety, where the lowest point of the wheelie bar wheels may not be more than 76 mm (3 inches) from the ground. May not exceed the wheelbase of bike and must be sufficiently cross braced to prevent side whip. On all mounting bars, butt welds or inner sleeved bar designs must have visible welded reinforcement (I.e., inner sleeve with rosettes, clam shells, bolted, etc.). Wheels must be non-metallic. All side panels must be securely fastened at 609 mm (24 inches) intervals minimum

Q CATEGORY REGULATIONS

QUAD BIKES

Whatever is not specifically allowed is disallowed.

Minimum Age: 16 years

This class to have a minimum of 6 competitors and is bracket racing.

Category designation "Q" followed by competitor's race number.

ARTICLES									
		Wheelie bars may be used							
		Heal guards are compulsory							
		Reasonable additional safety features may b							
	•	All quads must have some form of body plas	stics						
1		SYSTEM							
	1.1 1.2	Hydraulic disk brakes to be fitted front and							
	1.2	Front brakes to be single or multiple calipe Rear brakes to be single or multiple caliper							
	1.3	Standard or braided brake hoses to be use							
	1.4	Brake lights must be in working order and t		4					
2	CHAINS	Brake lights must be in working order and i	iney must reneot ret	<i>.</i>					
2		pitch chains are allowed.							
3		CAL CONTROL SYSTEM							
-	3.1	All quads must be fitted with an ignition fo	r starting and a cuto	out switch for safety.	Cut off switch to be attach	ned to			
		the handlebars).	0	,					
	3.2	Batteries must be fitted securely.							
	3.3	For night racing all quads must be fitted with	th a red rear facing	light.					
4.	ENGINE	CAPABILITIES							
	4.1	Q Class:							
		Normally aspirated up to and including 115		4 stroke					
	4.0	Normally aspirated up to and including 575	CC	2 stroke					
	4.2	QX Class:	raua aunaraharaar	and anging as of 11E	1 as ar biggar 1 strake up t	la and			
	Any form of forced induction i.e. Turbo, Nitrous, supercharger and engine cc of 1151 cc or bigger 4 stroke up to a including 1500cc 4 stroke or576 cc 2 stroke or bigger up to and including 756 cc 2 stroke.								
	Note: Any competitor in the Q category may elect to participate in the QX class provided his ET time is quicker								
		11.50 seconds. All competitors may only r				i uiaii			
5.	FXHAUS	T SYSTEMS		no day.					
•		stems to be covered where potential exists f	or the rider to come	into contact with the	pipes while in the riding pos	sition.			
 FRAME MODIFICATION 									
	the engine; no cracks allow	ed on							
	frames.								
7.	FUEL								
	Must comply with MSA specifications.								
8.	FUEL TANK								
	Regular or race fuel may be used with accordance to MSA Ruling.								
9.		CLEARANCE DIMENSIONS							
	9.1	Maximum ground clearance allowed is 220	mm; this will be me	easured from the grou	und to the frame. Belly plate	es not			
	0.0	to be considered part of the chassis.							
10	9.2	Minimum ground clearance, measured in the	he same manner as	maximum ground ci	earance to be 30 mm.				
10.	HANDLEI 10.1	Minimum length, not shorter than 750 mm.							
	10.1	Maximum length, not longer than 850 mm.							
	10.2	Note: These distances measured from the		way					
			TUT THE ST POINT CITLE	way.					

11. OVERALL DIMENSIONS

- Maximum length measured from centre of front hub to centre of rear hub, this may not exceed 1550 mm. 11.1
- 11.2 Minimum length using same criteria and basis as for maximum length, this may not be shorter than 1250 mm.
- 11.3 Maximum wheelbase front, this measurement to be taken from the outside of one rim to the outside of the other rim across the same axle, this may not exceed 1400mm.
- Minimum wheelbase front, using the same criteria and basis, as for maximum wheelbase front, this may not be less 11.4 than 1100 mm.
- 11.5 Maximum wheelbase rear, using the same criteria and basis, as for maximum wheelbase front, this may not exceed 1200 mm.
- 11.6 Minimum wheelbase rear, using the same criteria and basis for maximum wheelbase front, this may not be less than 1000 mm.
 - a. The use of wheel spacers on front hubs and rear axle is not allowed.
 - Power transfer from the axle to the wheels must be done via a "single piece billet" machined or cast, no welded b. or fabricated components to be used as wheel hubs.
 - The rear axle may not protrude further than the outside of the wheel rim. C.

12. RIMS

- Rear rims may have a minimum diameter of 8 inches (203 mm) 12.1
- 12.2 Rear rims may have a minimum width of 15 inches (381 mm)
- Front rims may have a minimum diameter of 8 inches (203 mm) 12.3
- 12.4 Front rims may have a minimum width of 150 mm.
- Front rims may have a maximum width of 250 mm. 12.5

13. SAFETY CLOTHING

- 13.1 Full racing genuine leather, Kevlar or road rated gear must be worn at all times.
- 13.2 Motorcycle riding boots must be used.
- 13.3 Leather gloves must be used.
- 13.4 Full face helmets to be worn, (no MX off road helmets), all helmets must be SANS Approved.

14. SEATS

Genuine/original seats are mandatory and must be retained by means of standard conventional methods and must mount on the original mounting brackets on the frame.

15. SEAT HEIGHT

- 15.1 For the exercise of safety and to achieve an acceptable centre of gravity the seat must mount in the original OEM mounting positions of the frame. No cutting or modifications allowed to the frame where the seat mounts. 15.2
 - Centre of Gravity: Maximum 770mm Minimum 750mm

16. SUSPENSION

- 16.1 Must have a minimum travel of 10 mm.
- 16.2 Standard or aftermarket shocks may be used, they may not have more than 100 mm travel.
- 16.3 Front and rear shocks must be set on a firm setting to minimize travel.
- 16.4 No strapping down of front or rear suspensions will be allowed.

TYRES 17.

Road tyres or slicks (NO Off-road tyres may be used)

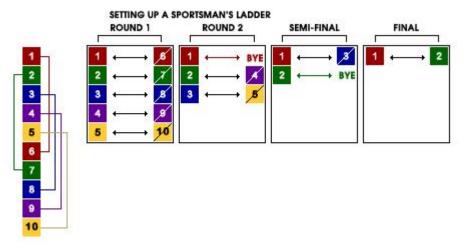
18. WHEEL HUBS

- 18.1 Split pins must be used on all hubs.
- 18.2 Split pins must be used on all tie rod ends.
- 18.3 All hubs used must be standard spec hubs.

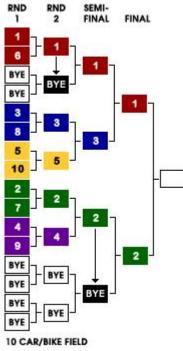
QUALIFYING, PAIRINGS AND LADDERS

- 1. During the gualifying session, each competitor is required to complete at least one run in order to be paired for main eliminations. Qualifying is purely to gauge what times a vehicle is capable of running in order to set a dial-in time for main racing. Red Lighting does not disgualify a competitor from main racing. Failing to complete a run during this session does. Please note that practice runs do not count.
- 2. Race Control manually monitors each run during gualifying. The best time is taken and deducted from the class record. Ranking is then done sequentially, starting from the competitor who ran closest to the class record. With the exception of the SBS class who run on Pro-Ladders, all other classes are then paired on Sportsman's Ladders.
- As previously stated in DR 6, [6.1], Bye Runs are compulsory and are awarded in progressive order, e.g., if a field 3. produces three Bye Runs, the Top Qualifier will receive the first, the No. 2, the second and the No. 3, the third. On an uneven field, the Top Qualifier always receives a Bye Run. The breakout rule does not apply during a Bye Run but Red Lighting does.

In order to set up a Sportsman's Ladder so that the Number 1 and 2 qualifiers meet in the final, a proposed conclusion needs to be arrived at. Assuming that the slowest qualifiers will fall away, the following example shows how to set up a 10 car/bike field.

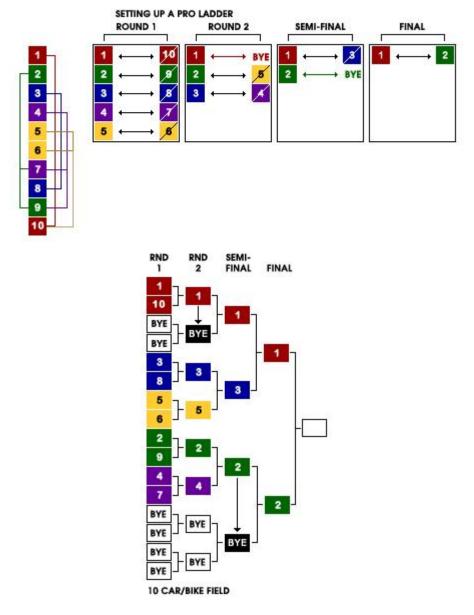


Working backwards from the final round, the ladder will appear as follows:



- 1 There are only four instances where the top qualifiers will not meet in the final. It is unavoidable and that occurs on Fields, 9, 18, 19 and 21.
- 2 In order to set up a Pro-Ladder, the same principle is applied, however, fastest is paired against slowest as per the following example.

4.



NOTE: This system is applied regardless of whether the competition has been set up for handicap or heads up racing. Dial-in times do not affect the ladders in any way.