

Forth Association of Model Auto Racing

FAMAR 1/8th I.C. OFF ROAD RACING AND TECHNICAL INSPECTION

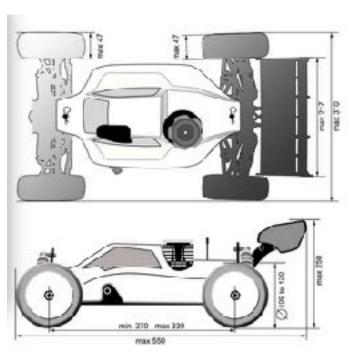
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SECTION ONE - CAR/TECHNICAL

- 1.1. GENERAL DIMENSIONS FOR BUGGYS I.C.
 - The official measurements in the technical specifications are the metric measurements.
- 1.1.a Overall length 550mm maximum.
- 1.1.b Overall width 310mm maximum at any point of suspension travel.
- 1.1.c Wheelbase 270mm to 330mm.
- 1.1.d Overall height measured from the ground including roll bar at full suspension compression is 250mm maximum (this measurement does not include the receiver aerial).
- 1.1.e The minimum weight limit, ready to race excluding fuel, shall be 3.2kg/7.04lbs for 4WD cars
- 1.1.f Official FAMAR measuring device must be used.
- 1.1.g The front of the vehicle chassis must be equipped with a plastic bumper (no metal at all) in such a manner that it will minimize damage in the case of it entering into contact with other participants, marshals or any person. The bumper must be made from flexible material (plastic) with all corners and sharp edges rounded off. If a rear bumper is used it must follow the same principles.
- 1.1.h The measurement of the wheelbase may be made by simple measure of axle centre distances with the suspension in any position. The Race Director should be prepared to make more exact checks in cases of doubt or protest.
- 1.1.i It is the responsibility of the drivers to ensure that their car complies with the regulations at all times that it is on the track. The race organizer may check any car for compliance with the regulations at any time during the race meeting.
- 1.1.j If a car is found to exceed the limits of dimensions on checking immediately after a race, positive proof of race damage may prevent disqualification.
- 1.1.k During technical inspection, to be done on an open to sight secured area, only the driver, one mechanic and the team manager are entitled to be present in addition to Race Officials.



1.2. ENGINES

- 1.2.a Internal combustion engines of not more than 3.5 cubic centimeters/0.214 cubic inches. No tolerance allowed.
- 1.2.b The fuel tank, including filter and fuel pipes up to the carburetor may hold a maximum of 125 milliliters/4.23 fluid ounces. No loose inserts allowed. Any tank found to be illegal (over 125 milliliters/4.23 fluid ounces) after a heat or final shall be removed from the car and inspected for a second time after an initial 'cool down' period of fifteen (15) minutes. This 'cool down' period is only necessary in the case of temperatures above 20 degrees C/68 degrees F. Only IFMAR approved measuring equipment to be used.
- 1.2.c All cars will be fitted with brakes and clutch in such a manner as that the car can be held stationary whilst the engine is running.

1.3. SILENCER

- 1.3. a Only IFMAR homologated silencers are allowed.
- 1.3.b The silencers used on the car have to bear their homologation number during the entire championship and their measurements have to conform with those on the homologation sheet issued by IFMAR.
- 1.3.c Silencers may be homologated by ROAR, EFRA, FEMCA or FAMAR up to four (4) months before the event. Silencers homologated in the four (4) month period before the event will not be included on the IFMAR Approved Muffler List for that event.
- 1.3.d The IFMAR Approved Muffler List will be published on the IFMAR web site and Organizers web site two (2) months prior to the event.
- 1.3.e The IFMAR Approved Muffler List with detailed drawings must be available in Technical Control. Additional of the IFMAR Approved Muffler List must be available to each participant, if requested.
- 1.3.f The outlet pipe may have a minus tolerance of 2mm./0.078in. (length).

1.4. TYRES

- 1.4.a All tires must be black with the exception of side wall lettering.
- 1.4.b No spikes, tubes or additional items intended to increase traction may be either glued to the outside of tires or passed through tires from the inside. "Cut and glue" of the tires is forbidden as well.
- 1.4.c. Wheel/tire overall diameter must be:

Max Diameter 120.00mm Min Diameter 109.00mm Width 47.00mm

1.4.d. In case the handout tires, all tires will be supply by organizer, same brand/model and quantity for all drivers.

1.5 **WINGS**

The rear wing with a maximum overall size 217 mm length and a chord of no more than 85 mm may be fitted.

Multiplan's wings are authorized

The width of 85 mm is measured between the lower leading edge and the higher trailing edge.

The side dams of the wing must have a maximum horizontal width of 100 mm and a maximum height of 70 mm. (irrespective of the orientation)

chord max 85

The single of multi plans wing must be registered inside the contour of the side dams.

The wing and the side dams must be made out of flexible material with angles rounded.

1.6. APPEARANCE

- 1.6.a Cars shall be a reasonable representation of the style of car used for Off-Road, Desert or Trial racing.
- 1.6.b Full body shells of saloon style are permitted but may only be trimmed to expose a maximum of 50% of the tires at full suspension depression. If such body shells are fitted, provision for trimming shall be as in sub-section "d"

Max dia. Min. dia. Width

120.00~mm / 4.724~inches 109.00~mm / 4.29~inches 47.00~mm / 1.85~inches No rim specs

- 1.6.c Where a roll-cage is fitted an open wheel style body shell must be fitted underneath the cage so designed as to enclose R/C equipment and fuel tank with sufficient front and side areas to allow clear display of racing numbers.
- 1.6.d Openings may be cut in the shell for the antenna and the pipe ends to allow access to fuel filler, radio switch and engine adjustment, and a maximum of a third of the wind screen to assist in cooling the engine if not already opened by the fuel filler access. Clearance around such items shall be kept to a minimum.
- 1.6.e Body shells as described in Section 1.6.c need not conform to scale but should conform to the provisions of 1.6.a.
- 1.6.f Acceptance of a Saloon body shell by another IFMAR section shall be deemed to imply approval by the Off-Road Section for racing purposes.
- 1.6.g Car must run with the body and wing with race numbers at all times while racing.

1.7 FUEL

1.7.a Fuel is free brand/type for all class: Fuel or fuels must be commercially available containing only methanol, oil lubricant and any % of the nitro methane.

The following additives are strictly prohibited; Hydrazine, Hydrogen Peroxide, Toluene, Propylene Oxide.

1.7.b Random fuel tests will be made at any time during the FAMAR Championship. Samples and counter samples will be collected for analysis and any competitor found to be using any of the above additives will be disqualified and any race result obtained will be null and void. Further punishment may be determined by FAMAR/IFMAR, such as a ban from all future International Racing.

1.8 **DRIVER AIDS**

The use of traction control devices, active suspension devices and any steering control aided by gyroscopes/'G'-force sensors is strictly forbidden. Sensors are only allowed for the purpose of passive data recording and not for adjusting the performance of the car whilst in motion. It is the object of this rule to ensure that the FAMAR 1/8th I.C. Off-road Championship be a test of driver skill.

SECTION TWO - ORGANIZATION & PROCEDURES

2 ALLOCATIONS FOR FAMAR CHAMPIONSHIPS

- 2.0.a The number of drivers will be decided by FAMAR.
- 2.0.b For allocation and re-allocation procedures see FAMAR General Rules).

2.1 **RACING FORMAT**

2.1.a Qualification heats shall contain a maximum of 12 drivers and shall be of seven (7) minutes duration. Any extension of this maximum can only be decided by the International Jury upon request of the Race Director and the FAMAR Referee.

The order of the heats will be: -

FOR 5 HEATS:

ROUND	START ORDER HEAT #		
1	1,2,3,4,5,6,7,8,9,10		
2	3, 4,5,6,7,8,9,10,1,2		
3	5,6,7,8,9,10,1,2,3,4		
4 7,8,9,10,1,2,3,4,5,6			
5 10,9,8,7,6,5,4,3,2,1			

- 2.1.b Each driver shall be entitled to a maximum of 5 attempts at qualification, weather permitting.
- 2.1.c An audible warning will be given in English or Spanish language at one (1) minute and at thirty (30) seconds during the warm-up period. At the starting time, an audible and visible signal will be given for a rolling start.
- 2.1.d The start position should be arranged so that the master and individual clocks for all cars will be triggered correctly. The start/finish line must be clearly marked on the track surface and side barriers.
- 2.1.e All drivers will be entitled to participate in a final.
- 2.1.f The top qualifier will compete in the semi-final 'A' and will receive the Top Qualifier's trophy at the Awards' Banquet. The first four/five (4/5) drivers from each semi-final will go into the Main Final.
 - The remaining two (2) positions in the Main Final will be taken by the next two (2) fastest drivers from either of the two (2) semi-finals. The positions in the Main Final are determined by each drivers' semi-final result. In the case of different weather conditions (dry/wet) during the semi- finals, five/six (5/6) from each semi-final will go to the Main Final and their positions.
- 2.1.g The 'A' series sub-finals will be composed of odd placed drivers following qualification, the 'B' series sub-finals will be composed of even placed drivers after qualification.
- 2.1.h All sub-finals consisting of ten/twelve (10/12) drivers are of fifteen (15) minutes duration (up to 1/16 sub finals) or of twenty (20) minutes duration (from 1/8th to semi finals) with the top three (3) from each sub-final progressing to the next sub-final up to and including the guarter (1/4) finals.
- 2.1.i No allowance for changing conditions from 'A' or 'B' sub-finals will be made.
- 2.1.j The main Final, consisting of ten/twelve (10/12) cars, is of sixty (60) minutes duration.
- 2.1.k The Race Director may authorize track repairs or improvements with the referees agreement. Team Managers will be informed.
- 2.I During heats and finals, a maximum of two (2) mechanics per driver and the designated Team Manager are allowed in the pits. The Team Manager cannot act as a third mechanic.

2.2 TIMED PRACTICE SYSTEM

- 2.2.a Wednesday The practice for drivers will only be run in qualification group order. If facilities allow it, Practice Heats can include up to 15 drivers per heat.
- 2.2.b The two (2) rounds will be of ten (10) minutes duration, three minutes warm up and the last seven (7) minutes being timed for seeding. Prior to the start of these ten (10) minutes, a warning is given at two (2) minutes, one (1) minute and thirty (30) seconds and an announcement stating "Clock is running".

 Best 3 consecutive laps added together for a result inside those last 7 minutes or the
 - complete 7 minutes may be used for seeding purposes. The selection of the seeding system is done by the race director and must be clearly advised before the start of controlled practice.
- 2.2.c The best point result scored will be used to sort drivers by performance and to seed them before the actual qualifying rounds.
- 2.2.d For re-seeding drivers into their new qualification heats, the first twenty/thirty (20/30) best drivers are to be spread with common sense (countries, performance, radio frequencies etc.) over the heats 1 to 3, the next best twenty/thirty (20/30) in heats 4 to 6, and the remaining twenty/thirty (20/30) drivers in last heats. Common sense to be used at all groups.

2.3 QUALIFYING SYSTEM

2.3.a In each round, drivers will score points based on the laps and times achieved. The maximum number of points awarded to the best driver will be equal to the total number of participants at the event plus 5 (five).

Fastest in each round will score	number of participants, +5 points

2nd fastest will score:	points of fastest driver, -2 points	
3rd fastest will score:	points of 2nd fastest driver, -1 point	
	Down to last position one by one.	

2.3.b In every round, in case of a tie, the points will be equally awarded to each driver, and the first driver not to tie, will receive one point less per tie.

For example, with 100 drivers racing, maximum number will score wi

1st Driver		will score	105 points	
2nd Driver		will score	103 points	
3rd Driver		will score	102 points	
4th Driver	7 Laps 10:01:00	will score	101 points	TIE
5th Driver	7 Laps 10:01:00	will score	101 points	TIE
6 Driver		will score	99 points	
		will score		

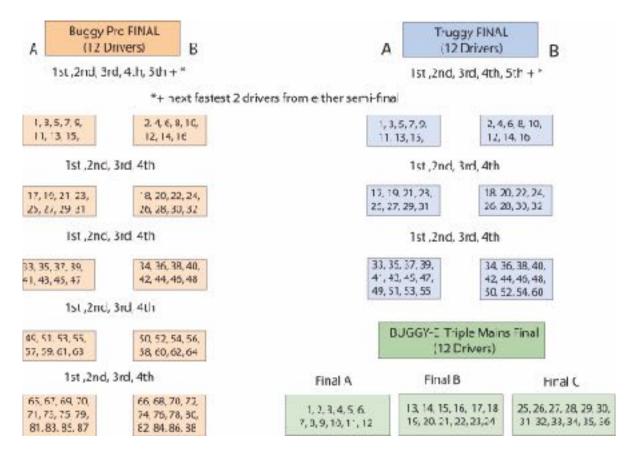
- 2.3.c. In a case of two or more drivers having the same point score, the next best point score determines position. If still unable to resolve with the next best rounds, then the driver with the fastest laps and times in a qualifying attempt will determine position.
- 2.3.d. Out of five (5) rounds, three (3) will be added to account for the classification's ranking. Out of four/three (4/3) rounds, two (2) will be added to account for the classification's ranking. Out of two/one (2/1) rounds, one (1) will be added to account for the classification's ranking.
- 2.3.e. All drivers will be entitled to a sub-final.
- 2.3.f. If a driver does not start a heat, he receives no points.

2.4 FINALS

- 2.4.a. 'A' series of sub-finals will be composed of odd placed drivers following qualification, 'B' series sub- finals will be composed of even placed drivers after qualification.
- 2.4.b. Every qualifying driver must progress to the Main Final in accordance with the accompanying Christmas Tree system.
- 2.4.c. All sub-finals are twenty (20) minutes duration, up to 1/8 finals, from 1/8th to semi finals all will be of thirty (30) minutes duration, with the top three/four (3/4) from each sub-final, up to the quarter (1/4) finals, progressing to the next sub-final, and the first four/five (4/5) from each semi (1/2) final progressing to the Main Final, along with the next two (2) fastest drivers from either of the two (2) semi-finals. (see also 2.2.f to 2.2.j)
- 2.4.d. No allowance for changing conditions from 'A' or 'B' sub-finals will be made.
- 2.4.e. After the finish of the quarter finals, each semi-final ('A' & 'B') is entitled a ten (10) minutes practice time with numbers and appropriate radio frequencies.

- 2.4.f DELAYED START As long as the starter has not called the cars to the starting line, every participant of the semi-finals and the final may request a delay of ten (10) minutes for repairs on his car. The delay will be granted only once for each semi-final and the Main Final. The track shall be closed to all cars during the delay period. The driver requesting the delay for whatever reason, except an error in frequencies by Race Control, must start from the back of the grid, six (6) meters/19.68 feet behind the last official grid position or from pit lane as released by the official.
- 2.4.g Over 35 years old final. After both semi-finals and before the main final there will be an exhibition final of thirty (30) minutes for drivers older than 35 years at the moment of the race. Drivers will qualify for that race according to their result achieved in qualification; top 10/12 will have the right to compete at this final except those who have reached semi-finals.

2.5 CHRISTMAS TREE (BUGGY - TRUGGY) and TRIPLE MAIN FINALS (BUGGY-E)



2.6 **TIMETABLE**

2.6.a Details of the timetable for the overall event with specific details on practice, qualifying and finals has to be included in the Status Report.

The event will be held over Five (5) days.

Wednesday:

08:00 AM - Registration and Admission Inspection from 8:00

10:00 AM - Free practice organized in groups Groups can be up to 15 cars

03:00 AM- Controlled practice, all drivers, heats/15 drivers x 1, seeding end of the day based on 3 consecutive laps

Thursday:

08:00 Team Managers' Meeting
09:00 Final Registration and Admission Inspection
09:00 Qualify, all drivers, heats up to 15 drivers, 7 minutes all class
Qualify (see Rule 3.3) - 1st and 2nd and 3rd Rounds of Qualifying Heats

Friday:

- Team Managers' Meeting
- Opening Ceremony
- 4rd Rounds of Qualifying Heats
- Lower A & B sub finals 15 minutes each maximum.

Saturday:

- 1/2 A and B Finals. 20 minutes each maximum.
- Exhibition final for +35 drivers 30 minutes maximum.
- Main Final Buggy Pro 45 Minutes
- Awards' Banquet in evening.

Sunday - Spare Day

- 2.6.b An opening ceremony will take place at which competitors will participate in a welcoming procession. Each National Team is asked to wear similar shirts. A flag and a sign bearing the name of each country will be provided by the Organizer.
- 2.6.c In the event of rain, racing will proceed irrespective of the weather, within reason. All races, including sub-finals and final, will take place at the appointed time, wet or dry. If heavy electrical storms occur, racing will be suspended. The Race Director, together with the Referees, will make the decision.

2.7 ACCOMMODATION REQUIREMENTS

- 2.7.a The drivers' area must accommodate all drivers and be equipped with tables, seats and lights to work there on an standard timeframe up to 20:00. The area must be covered and protected from adverse weather conditions. The drivers' rostrum must be accessible from the drivers' area.
- 2.7.b The drivers' rostrum must accommodate ten/twelve (10/12) drivers with a minimum of 80cm space for each driver and if fifteen (15) driver heats have been approved by IFMAR, the drivers' stand must be altered to accommodate fifteen (15) drivers with a minimum of 80cm space for each driver. The width of the rostrum must be a minimum of 1.25 meters. Height of the rostrum-floor to be between two (2) and three (3) meters. Access to the rostrum must be by a solid stair, with a minimum width of 1.2 meters. A strong parapet is mandatory. The rostrum must be protected against bad weather or sunshine. Mechanic must be positioned under his driver's position. During finals, positions will be selected by drivers in order of qualifying position, i.e. No. 1 qualifier has first choice, No. 2 qualifier has second choice, etc.
- 2.7.c The drivers' rostrum must be placed in a position that provides equal view of the track to each of the drivers at any place on the rostrum, during practice or racing. The view must not be obstructed by any object (pillar, flagpole, other drivers, etc). The distance from the front of the rostrum to the nearest part of the track must be between two (2) and four (4) meters.
- 2.7.d The transmitter impound must be close to, or if possible, on the rostrum. Transmitters must be protected against bad weather and sun and should be stored in a safe way.
- 2.7.e Timing and lap counting area must be located at a slow part of the track, with a good view for all lap counting officials. The number of a car must be readable for at least two (2) seconds from that area. Adequate space must be provided for lap counting officials. The area must be protected against bad weather. Interruptions to lap-counting officials by driver, managers or others must be prevented.
- 2.7.f A results board must be positioned at a convenient place not far from the timing and lap counting area and shall be accessible to all competitors and team managers. The

- scoreboard shall be protected against wind and rain. Copies of all results must be available upon request of officials.
- 2.7.g Referees must be provided with an exclusive vantage point for their use only and separated from all drivers and mechanics. There must be a means of direct communication (intercom) between the Referees and both the drivers' rostrum and the flag marshal.
- 2.7.h All official announcements concerning the race must be made in English or Spanish in the pit area, drivers' stand and mechanics' area.
- 2.7.i A supply of clean running water and compressed air must be available enabling competitors to clean their cars, a minimum of 4 outlets for each service is recommended.
- 2.7.j Power to charge batteries and use powered hand tools must be available with at least 1 connection per each 6 participants
- 2.7.k Radio communication is allowed between Driver and Mechanic. Radio Communication Rules:
 - a: Only designated public service bands with a maximum power output of 500 mW are allowed.
 - b: Radio communication can only be used by the driver their pit crew, only while their driver is on the drivers' rostrum for the duration of the race.
 - c: A single ear piece or one sided head set type that is not audible to others and does not reduce the ability to hear the referees' calls must be used.
 - d: All equipment must comply with the local & country radio communications rules.
 - e: Not allowed, any 2.4 GHz radio equipment.
 - f: Radio equipment cannot be used at any other time within or around the complex.
 - g: Race management has the right to test, decline or withdraw the use of any and all equipment without question.

Note: Rules, b, c & f, do not apply to race management.

2.8 SAFETY

- 2.8.a The safety of the spectators is of prime importance and must be considered when laying out track and spectator areas.
- 2.8.b The safety of officials, helpers, competitors and accompanying people are of equal importance, but it is assumed that they are more aware of any potential danger.
- 2.8.c Spectators, competitors, marshals and officials must be efficiently protected against the cars by adequate barriers.
- 2.8.d Track markers must be shaped and placed in a way that prevents cars from being projected into the public when hit at full speed.
- 2.8.e Technical inspection must always include the safety aspects of the cars. No sharp edges or other protruding parts of cars that may cause serious injuries in case of an accident are permitted.
- 2.8.f First Aid supplies must be available throughout the event (including practice) in case of necessity.
- 2.8.g A First Aid officer must be present throughout.
- 2.8.h Police and emergency services must have access to all areas, both public and restricted.
- 2.8.i An insurance against accidents and legal liability is compulsory. A copy of the Insurance Certificate must be enclosed with the Contract for the event.

2.9 LAP COUNTING & TIME KEEPING REQUIREMENTS & PROCEDURE

- 2.9.a. During FAMAR sanctioned events the lap counting is to be done automatically by means of an automatic lap counting system and transponders fitted on to each of the cars' body shell.
- 2.9.b Two approved independent automatic systems must be used simultaneously at FAMAR sanctioned events. FAMAR will check both systems. Both systems must produce a record of all the individual lap times of all cars and the number of laps and final time after finishing. Lap times and final time must be in seconds to 1/100th second (and minutes/hours). Both systems will be operated by the organizing club.
- 2.9.c Detailed requirements follow:
 - 1. Lap times must be in seconds to 1/100th second and final times in hours, minutes, and seconds to 1/100th second.
 - 2. Printouts must be kept with the record sheet, on which the final result is written down.

- 2.9.d The results from the first and second system are compared and in case of differences, the time keeping official must examine the data produced and in particular the lap time sheets. The final decision on the result is the responsibility of the Time-Keeper.
- 2.9.e The time keeping official is responsible for publication of the final results. He must store all the data produced by the two (2) systems until the end of the meeting which can then be used in case of protest against the results.
- 2.9.f Electronic systems must be connected to a reliable power source, a generator as primary power source may be used only if there is concern regarding the continuity of a reliable power source. If a generator is used must be of a commercial standard and all connections and plugs must be secure ensuring no accidental or easy disconnection can be facilitated. When the two electronic systems are run simultaneously, the backup must be powered from an independent power source.
- 2.9.g Both the first and the second time keeping and lap counting system must satisfy the requirements of FAMAR and therefore must be proposed and explained on the Sanction Questionnaire.
- 2.9.h The official result sheets containing results of all heats, sub-finals and finals must be sent to the relevant FAMAR Section Chairman within ten (10) days of the race. The final classification of the qualifying heats must also be completed and sent to the FAMAR Section Chairman.
- 2.9.i If both the primary and support lap counting system fail during a qualifying heat or final, the heat or final will be re-run as soon as is practicable. Under no circumstances will any lap score or time, other than those from the official time-keeping equipment, be accepted for any purpose to do with the running of an FAMAR race.
- 2.9.j Transponders are to be released by the Organizers to the drivers one heat before the respective heat.
- 2.9.k The secure fitting of the transponder to the car's body shell or chassis remains the responsibility of the driver.
- 2.9.I If a driver loses a transponder during the race or if the transponder is not working, the driver and pit-crew will be notified by a race official as soon as possible.
- 2.9.m If a lap counting problem occurs, transponders must be moved to a better position on the car on the Race Director's instruction.
- 2.9.n The provision of on-site copying facilities is mandatory.
- 2.9.0 A suitable working computer with proper race proven software must be provided to sort lap times, print results from heats and sort final positions from each series of races within fifteen (15) minutes of the completion of the series of races.
- 2.9.p Automatic lap counting, with cumulative and split lap times, will be in place for each car. Competitors are required to install a small transponder into their cars according to the organizer's instructions. An audio/video tape recording will be made.
- 2.9.q Every competitor is allowed to use his own IFMAR/FAMAR approved personal transponder if the lap counting officials are informed and agree.

 If an organizer is using a personal transponder system, he has to provide to all participants not having their own transponder, a transponder for every heat or final free of charge. It is strictly forbidden to ask for a rental fee. A deposit of the replacement value for the personal transponder may be demanded. If a competitor by any reason destroys or does not return a personal or normal transponder, he loses his deposit.
- 2.9.r AMB lap counting system or IFMAR approved equivalent must be used in duplicate.

2.10 RACE OFFICIAL - REFEREES

- 2.10.a The main task of referees is to observe the racing and in particular to ensure good sportsmanship during racing. They will ensure that the current IFMAR rules are observed by everybody.
- 2.10.b Two referees are required for all FAMAR Championships.
- 2.10.c One (1) FAMAR referee will be appointed by FAMAR. Travel and accommodation expenses will be paid for by FAMAR, Member Country and Organizer equally. The FAMAR referee will be supported by one (1) appointed deputy referee nominated and paid for by the host country's Association. They must be experienced and unbiased people with a good knowledge of the English/Spanish and National language and the current FAMAR rules and will have acted as a referee at least on national level before. A back-up referee must be nominated by each organization in case of absence of the official referee.

2.11 REFEREES' DUTIES

- 2.11.a At all times during the qualifying heats one referee in turn will watch and observe the racing from start to finish. During all Finals all Two referees must observe the racing from start to finish.
- 2.11.b The referees always work together, they take decisions and issue warnings and instructions in consultation. the referees may take action after an initial warning, but in all cases a maximum of three (3) warnings means automatic disqualification from the event.

2.12 REFEREES' POINTS OF OBSERVATION

- 2.12.a Bad sportsmanship during racing, i.e. impeding the progress of other participants, deliberate slowing down or waiting for another car, deliberate crashing into another car, deliberate cutting of corners or reckless driving in general.
- 2.12.b Unsportsmanlike behaviour of drivers and mechanics involved in the racing.
- 2.12.c Incorrect use of the entry and exit to the pits.
- 2.12.d Repairs and refueling b outside the pit area.
- 2.12.e Cars that do not conform to the regulations before the start is given or during the racing (i.e. loss of body shell, exceeding the noise rules due to loss or damage of silencer).
- 2.12.f Cars that are in an un drive able or dangerous condition due to damage or malfunctioning for the car.
- 2.12.g Starting procedure, i.e. writing down start line infringements.
- 2.12.h In the event of an early start, if not observed by the Time Keeper and/or the Starter, the Referees may also make the call.
- 2.12.i It is not the duty or the responsibility of the referees to check whether the cars conform to the technical rules, this is always the responsibility of the Technical Inspector. The referees check the methods used for technical inspection.
- 2.12.j If after repairs to a car judged to be in a un drive able or dangerous state a referee or the Race Director have approved the repair, the driver may continue his race.

2.13 REFEREES' AUTHORITY

- 2.13.a The referees issue warnings in the event of infringements of any of the points as described under section 3.14 and ultimately may even issue a black flag (disqualification) when their warnings are not responded to by a driver.
- 2.13.b Warnings and instructions are announced by the referees themselves and they will keep a record of the warnings and instructions issued.
- 2.13.c Three successive warnings lead to disqualification (black flag).
- 2.13.d All announcements will be in English/Spanish. Warnings will be posted on to the results sheets.
- 2.13.e Instructions issued by the referees must be observed immediately.
- 3.13.f Warnings for bad sportsmanship are announced with the words; "First Warning to car Number XX for bad driving"; "First Warning to Car Number XX for misuse of the pit area". Instructions for repairs are announced with the words; "Car Number XXX Repair Body/ Silencer/Car/etc".
- 2.13.g Appeals against the decisions of the referees must be addressed to FAMAR in writing. FAMAR is not obliged to act on such a complaint.

2.14 REFEREES' FACILITIES

- 2.14.a Referees must be provided with an area from where all parts of the track, the drivers' rostrum and the refueling area can be observed. The place must be separated from the drivers' area, to ensure a quiet and undisturbed working area (see section 3.8.i). Protection (walls, roof, etc.) must be given against all weather conditions.
- 2.14.b The place must be equipped with a minimum of three (3) chairs, a table and a monitor connected to the lap counting system to show the race order. There must be a separate communication system with a microphone and speakers direct to the drivers' rostrum and the pit lane to enable Referees' instructions to be heard only by the drivers and the mechanics in the pit lane. N.B. This system is to be totally separate from any public address system used for announcements. A system of preference for the Referees' microphone over the announcer's microphone must be provided by the organizers (see section 3.8.i).

2.14.c The organizer is responsible for providing the Referees with lunch, refreshments and a ticket to the Awards' Banquet.

2.15 REFEREES' REPORT

2.15.a Referees make up a report to be sent to FAMAR within ten (10) days. The report will contain information on the organization, accommodation and the racing. The Referees' notes have to be included. A copy of the report is sent to the organizer of the race meeting. Copies may be obtained on application to IFMAR.

2.16 TIME KEEPING SUPERVISOR AT FAMAR CHAMPIONSHIPS

- 2.16.a For all FAMAR Championships, FAMAR will either approve or nominate a Time-Keeping supervisor to check the systems provided and operated by the organizing club. The official Time Keeping Supervisor, although not operating the system, will have a good knowledge of the system to be used at the event. FAMAR will not be responsible for the costs.
- 2.16.b FAMAR approves the equipment of both time-keeping systems.
- 2.16.c The organizing club must provide experienced lap counters and a suitable accommodation for the Time-Keeping Supervisor.
- 2.16.d The Time-Keeping Supervisor is responsible for recording all the individual lap times and total laps plus finishing time of all drivers during all heats, sub-finals and finals. He is responsible for the classification of the results and the selection of drivers for sub-finals and finals. The Race Director must verify this classification and selection.
- 2.16.e After the finish of any heat, sub-final or final the results of the first and second time-keeping system are compared by the Time-Keeping Supervisor. In cases of difference between the two systems, the Time-Keeping Supervisor investigates both results and takes the decision on the final result.

 Only the results approved by the Time-Keeping Supervisor may be published to the
- competitor and are official.

 2.16.f In case of protests against results, the Time-Keeping Supervisor together with the Race
- Director will check on the questioned result and will take the decision.

 2.16.g All results, in writing, printing or otherwise are the property of FAMAR and are kept by the FAMAR Time-Keeping Supervisor until the end of the event. After the event all relevant data will be stored in FAMAR files. Copies of the original data will be left with the Organizer.

2.17 RACE OFFICIALS & RACE DIRECTOR

- 2.17.a In FAMAR sanctioned races it is mandatory to have the following official positions held by different persons:
 - 1: Race Director
 - 2: Assistant Race Director
 - 3: Time-Keeper
 - 4: Technical Inspector Other officials have to deal with and look after the following:
 - 5: Registration of Entrants
 - 6: Giving Start & Finish Signals
 - 7: Lap Counting & Time-Keeping
 - 8: Recording & Publishing Results
 - 9: Separation of Public, Drivers Areas & Track
 - 10: Supervising Marshalling around track
 - 11: Track Marshalling
 - 13: Transmitter Impound (no mandatory)
- 2.17.b The Race Director is responsible to follow the schedule of the event. The Race Director ensures that various tasks under his responsibility are well done including; Time-Keeping, Starts, Marshalling, Display of Results, Commentary to the Public, Comments to the Drivers, Technical Inspection, Frequency Control.
- 2.17.c The Race Director receives protests and decides if the International Jury has to meet. He also has to take urgent decisions or stops a race for safety or any other unforeseen situation
- 2.17.d The Race Director is under the authority of FAMAR.

- 2.17.e All officials, except referees and the Time-Keeping Supervisor are subordinate to the Race Director who issues detailed instructions for all jobs.
- 2.17.f The Assistant Race Director will represent the host country or organization and will assist the Race Director in co-coordinating all race matters with host organization officials.

2.18 QUALIFICATION OF OFFICIALS

- 2.18.a All officials must be properly trained and experienced persons, with the main positions held by persons with International experience and a good knowledge of the rules and the English Language
- 2.18.b For a FAMAR Championship the Race Director must be known and approved by FAMAR.
- 2.18.c No official is allowed to take part in the race.
- 2.18.d Officials should be clearly distinguished from competitors and spectators by wearing a band or otherwise.
- 2.18.e Marshalls
 - The organizer is required to supply marshals for all finals.
 - If organizer cannot supply marshals for qualifying then the drivers will perform marshalling.
 - If the drivers are required to marshal then they will marshal the heat following their racing heat.
 - Drivers in the final heat of that group will marshal the first heat of that group.
 - Drivers who bumped up from the previous final are not required to marshal.
 - Substitutes are not allowed except if the driver is physically unable and authorized in writing by the Race Director.
 - Marshals who are not in position one minute prior to start of the heat will be penalized by the loss of their best qualifying time.

The organizer must provide:

Marshals for vacant positions for which there are no available driver.

Gloves for use by the marshals at their discretion. All marshals must wear closed toe shoes.

Safety high visibility jackets.

Running marshals to allow the proper marshals to remain at their position.

Running marshals must return disabled cars to the pit area.

Only marshals and authorized personnel are allowed on the track while race is in progress.

2.19 INTERNATIONAL JURY

- 2.19.a The International Jury consists of official representatives of each voting Member bloc who will each furnish a minimum of one representative and a maximum of three representatives to serve on the International Jury. FAMAR will have a total of one vote each regardless of the number of representatives the bloc Members has.
- 2.19.b The relevant FAMAR Section Chairman shall always act as Chairman during International Jury Meetings and exercise a casting vote, if necessary. In the absence of the relevant FAMAR Section Chairman, the highest ranking FAMAR official shall take the chair at any International Jury Meetings. The Race Director and the FAMAR President are members of the Jury but do not have a vote in the decisions.
- 2.19.c The Referees may be called by the International Jury for opinions and explanations as deemed necessary.
- 2.19.d All decisions are taken by simple majority vote. The International Jury may request evidence and/or the presence of drivers involved or Team managers.
- 2.19.e Jury members must be approved by their organization and a second person appointed to serve in the event of a temporary absence of the official representative.
- 2.19.f Prior to the commencement of an International Jury Meeting, any mobile telephones in the meeting room must be turned off and placed on the meeting table until after the completion of the Meeting.

2.20 RESPONSIBILITIES OF THE INTERNATIONAL JURY

- 2.20.a To adjudicate in unforeseen situations.
- 2.20.b To handle protests not covered by Race Directors responsibilities.

- 2.20.c To change the race procedures or cancel the race whenever this is required due treasons of safety aspects.
- 2.20.d To check that the race is run according to the official FAMAR rules.
- 2.20.e When necessary the Race Director may call for a meeting of the International Jury.
- 2.20.f To make official by announcement any decisions voted on by the Team Managers' Committee, provided the International Jury agrees with these decisions.
- 2.20.g The International Jury is not responsible for the organization and well running of the race.
- 2.20.h The Chairman of the International Jury will make official the results of the FAMAR Championship through the ranking FAMAR Officer present at the event.
- 2.20.i When necessary the Race Director calls the International Jury to meet. The International Jury may also be called by FAMAR.
- 2.20.j The Organizer must provide a room for the International Jury to meet in seclusion.
- 2.20.k Jury members may not have dual duties or be a Race Official or Referee. Jury members may be participants in the event but must allow auxiliary Jury Members to serve and vote in any protest involving said Jury Member as a participant.

2.21 TEAM MANAGERS

- 2.21 The Team Manager or a nominated deputy must be present during all official racing. The Team Manager is appointed by his National Association. The responsibilities of the Team Manager are: -
- 2.21.a To be present at the drivers registration of his team.
- 2.21.b To be present at the technical control either before, during or after the end of the race in which his team members participate.
- 2.21.c To look after the welfare and behaviour of his team and take care that they all receive proper accommodation in the pit area.
- 2.21.d To attend the Team Managers' Meeting prior to the start of the race or when a Team Managers' Meeting is called by the Race Director or the highest ranking IFMAR official in attendance.
- 2.21.e The Team Manager is the link between the national team and the race direction by receiving all information referring to; timetable changes, frequency changes, results of heats, semi-finals, finals, and all other information referring to the race.
- 2.21.f He is allowed to stay in the pit area when a race has a participant from his team and it is in progress.

2.22 TEAM MANAGERS' COMMITTEE

2.22.a Each country will have a Team Manager who is responsible to pass on complaints, protests or suggestions from his team members to the Race Director. The Race Director will then decide whether a Team Managers' Meeting should be called to discuss a vote on the matter raised. If the Race Director does call such a meeting and the majority of Team Managers support the matter raised, the Race Director must then refer to the International Jury for the final decision.

2.23. ARRANGEMENT OF HEATS

2.23.a The arrangement of the heats will be done subject to frequencies and common sense by spreading the top 50/60 drivers in the first 5 heats with a maximum of 4 drivers of the same nation in each heat. The first 5 drivers take 1st place in the first 5 heats, next 5 in the second place and so on. Use this system to include 150/180 drivers and avoid small teams being placed in the same or consecutive heats.

2.24 REGISTRATION

- 2.24.a Drivers' registration must take place on the day prior to the race and on the morning of the first day until 12:00.
- 2.24.b FAMAR may authorize later registration as requested by Team Managers or a Representatives. If a driver has not registered by midday of the first day of the event then his place can be reallocated except if such notification has been given.
- 2.24.c During registration, every driver will be given an envelope which includes:
 A detailed schedule including starting times of each heat, three (3) sets of numbers for the car, (3) sets of numbers for the wing, one (1) set of numbers for the transmitter, one (1) badge each for the driver (this badge must show his passport-size photograph) and

mechanic. The size of car numbers to be minimum 40mm high x 30mm wide with a stroke of minimum 8mm in black on a white background measuring minimum 55mm in height by minimum 40mm width. Any other necessary information.

- 2.24.d One badge/pass must be provided for each country's Team Manager.
- 2.24.e When registration of drivers is carried out, each driver will sign a form that states that he accepts, and will abide by the published rules of the event.
- 2.24.f The following color badges will provide access to pits and track:

Orange badges/Team Managers: Blue badges/drivers:

Yellow badges/mechanics: Green badges/Press:

- pits, staging area, special viewing area drivers' stand, pits, staging area
- pits, staging area
- pits, staging area, special viewing area

Red badges/race officials: – all areas Grey badges/IFMAR officials: – all areas

2.25 FREQUENCIES & FREQUENCY CHANGES

- 2.25.a Only frequencies of the competent body of the country concerned will be used. Other frequencies may only be used with the approval of the Organizer, who then takes no responsibility. The Organizer may refuse non-authorized frequencies, providing competitors have been notified in the Race Invitation.
- 2.25.b A frequency flag/clip or other usual method will be used to show the frequency of the transmitter. During practice frequency flags may not obstruct the view on the track of other drivers.
- 2.25.c In case of more than one driver using the same frequency during practice, the time for each driver must be equally divided.
- 2.25.d In the case of two (2) drivers using the same frequency who qualify for the same sub-final or final, the faster qualifying driver will keep his frequency and the other must change.
- 2.25.e When a frequency change is required up to ten (10) minutes time must be allowed following notification to carry out the change.
- 2.25.f Lower qualifying drivers, who cannot or will not change their frequency, will not take part in the sub- final or final for which they have qualified.
- 2.25.g If a driver must change his frequency before the start of a sub-final or final due to an error of the Organizer, he will be allowed up to ten (10) minutes time to carry out the change.
- 2.25.h If a driver finds his radio equipment defective or has made an error in the selection of his crystals, the race will not be delayed beyond the schedule.
- 2.25.i All frequency changes must be authorized by the Race Director before the change is made.
- 2.26.j The Organizer shall not display any drivers' transmitter frequencies on any heat sheets, result sheet or race schedule to preserve the security of the frequency control systems.
- 2.25.k Each driver in the Main Final shall be permitted to change his frequency before the start of the race. Only the race Director is permitted to know the frequencies used by the Main Finalists.

2.26 TRANSMITTERS & TRANSMITTER IMPOUND

- 2.26.a Transmitters must be constructed in such a manner that the crystal can be changed. All competitors must have at least two (2) alternative frequencies available to that registered during registration During his heat or final a driver can only come down from the rostrum to the pit with his radio if the Race Director previously authorizes it during the Team Managers meeting
- 2.26.b Spare transmitters in the pits will cause disqualification.
- 2.26.c The Organizer must provide protected and secure storage for impounded transmitters, preferably adjacent to the drivers' rostrum (see Section 2.8.d).
- 2.26.d Transmitters are impounded immediately after a request by the Race Director or other Official. When impounded for the first time, transmitters are marked with heat-numbers and are stored accordingly.
- 2.26.e Transmitters must be impounded at all times whilst racing is in progress.
- 2.26.f Transmitters are only released for the next race after all the transmitters used in the previous race are impounded by the officials. Transmitter impound must take place

- immediately after the driver has completed his race or has finished driving and is leaving the drivers' rostrum.
- 2.26.g At any time, with the Transmitter Impound Supervisor's or Referee's agreement, a driver may bring his car, together with his Team Manager, to the rostrum to make adjustments, subject to frequency clearance.
- 2.26.h Transmitters may never be taken onto the track or into the pit area.
- 2.26.i Extensions and/or additions to the antenna on a transmitter are forbidden.
- 2.26.j Use of 2.4GHz DSM/DSS systems.

 These systems can be used, if permitted in the organizing country. However, due to the way they operate, a driver using such a system cannot ask for any delay in case of radio problems.

2.27 TECHNICALINSPECTION

- 2.27.a Technical Inspection must take place before the start of the racing. Cars must be presented for inspection after being called by the officials.
- 2.27.b Technical Inspection must include a thorough check-out of the car and also the transmitter.
- 2.27.c Only one car will be accepted. When transmitters are checked, the spare transmitters must also be presented for inspection.
- 2.27.d When a car or transmitter does not comply with the rules, changes may be carried out before presenting it for final approval.
- 2.27.e Cars which have passed Technical Inspection must be marked with the drivers identification number, consisting of the heat number and the car number. This number must be engraved on to the chassis plate and the fuel tank will be marked. Only one (1) car per driver.
- 2.27.f For each competitor the race has officially started after technical inspection and approval of his car.
- 2.27.g The Technical Inspector may request inspection of any entrant's car at any time during the race, without giving reasons.
- 2.27.h All cars of semi-finalists and finalists go into a 'Parc Ferme' immediately after the finish of their race and are inspected. Cars must remain with the officials and be untouched by drivers or mechanics. Any race distortion must be ignored. Inspection be on at least: engine, tank capacity, chassis (dimensions).
- 2.27.i The marked part of the car, the main chassis, may only be changed with the approval of the Race Director. The original marked chassis must be left with the Race Director.

2.28 TEAM MANAGERS' MEETING

- 2.28.a A Team Managers' Meeting must be held prior to the race and it must be held in the host nation's language and at least English. The Race Director must call the meeting and Team Managers, Referees and other officials must be present.
- 2.28.b The Team Managers' Meeting must be held between fifteen (15) and thirty (30) minutes before the start of racing.
- 2.28.c The following points should be covered in the Team Managers' Meeting; security and safety items, the starting procedure and explanation, disciplinary questions, other items concerning the contestants, changes in the organization or procedures, presentation of the main officials and Referees.

2.29 FLAGS

- 2.29.a The use of the following flags is compulsory: Starting Flag the National flag of the host country where the race is being held. Finish Flag a chequered flag. Black Flag all black flag.
- 2.29.b Black Flag: The car in question must immediately stop in the pit to receive instructions (see Sections 3.13 and 3.14). The black flag will be used by either a referee or the Race Director if a car is judged to be in an undriveable or dangerous condition. If after repairs have been carried out and after the Race Director or Referee has approved the repair, the driver may continue his race. Cars which lose their bodies or other parts must immediately stop and carry out the necessary repairs after which they may re-start.
- 2.29.c The Black Flag is operated by the Flagman (Starter), who receives his instructions to do so from either the Race Director or the Referees. Under no circumstances may he use the

- black flag on his own authority. The Black Flag is always shown with the corresponding car number.
- 2.29.d Not responding to the black flag within two (2) laps will lead to disqualification of the participant concerned.

2.30 CAUSES FOR PENALTIES

Penalties in time, laps or even disqualification will be issued by the referees for the following:

- a) Unsportsmanlike behaviour.
- b) Deliberate corner cutting.
- c) Re-entering the race from other than the point at which the car left the track (not in the case of an engine stoppage and the car has to be re-started when the car re-enters the race from the pits).
- d) When repairs are made to the car other than in the pit area of the track.
- e) If the car is pushed over the finish line (it must finish under its own power).
- f) Not returning to the pits after finishing a race.
- g) If orders of Race Officials are not obeyed.
- h) If acting contrary to FAMAR rules.
- i) If a driver changes his complete car for whatever reason.
- j) If a driver changes his frequency without the permission of the Race Director.
- k)If a driver does not return his transmitter to the transmitter impound immediately after the finish of the race.
- I) The bad behaviour and deportment of any competitor during the race meeting which could injure the image of the sport. This may become subject to National or International (IFMAR) sanction.
- m) If a car fails technical inspection, that round time will be disallowed.
- n) If a driver jump starts in any final, the Referees will give a 'Stop and Go' penalty.

2.31 REFEREES' WARNINGS

- 2.31. a Warnings and penalties issued by the referees must be noted on the result sheet and on the result board for the drivers (preferably in red).
- 2.31.b Time penalties must be awarded as stop and go penalties, where possible. The Referees should inform the driver and announce the penalty through the sound system. Within the next three (3) laps, the driver must bring the car to a specially-indicated area. The area will be controlled by the Start Marshal who will pick up the car and watch the Referee for an indication that the car can be returned to the track. The car must return to the track through the pit lane, during which time, if the driver wishes, the car may be re-fuelled and/ or repaired after the stop and go penalty has been completed. In the case where the driver does not stop, or cannot comply, a one (1) lap penalty will automatically be given.

2.32 PROTESTS

- 2.32.a Only drivers participating in the race may enter a protest.
- 2.32.b A protest can only be made through the Team Manager.
- 2.32.c Protests may concern: The organization (acting contrary to the rules), officials (acting contrary to the rules), results (only when proof can be presented showing the result is wrong), other competitors (acting contrary to the rules to seek advantage or disadvantage for the protestor).
- 2.32.d Only written protests handed over to the Race Director within ten (10) minutes of the publication of results of the heat or occasion to which it is concerns, will be considered.
- 2.32.e Fifty (50) U.S. dollars or the equivalent in the host country's currency has to be paid to the Race Director, who will only then accept the protest. The time of receipt of the protest must be recorded.
- 2.32.f The protest must contain relevant information for the Race Director to be able to discuss the protest and decide.
- 2.32.g Protests are dealt with by the Race Director and if necessary the International Jury.
- 2.32.h The decision on the protest must be made within thirty (30) minutes of it being lodged and accepted. Only for important reasons and when the International Jury has to meet, may the decision be delayed to sixty (60) minutes maximum. When the protest concerns subfinals or finals, either the decision must be taken ten (10) minutes before the start of the

- following final or the start of the next final must be delayed until ten (10) minutes after the decision.
- 2.32.i After the final race, there will be a 'protest period' of Ten (10) minutes after the provisional results have been published in writing on the score board. For this purpose the publishing time of the provisional results must be noted down on the result sheets. During these ten (10) minutes, protests against the results may be presented to the Race Director who will then act accordingly. If no protests are presented within the ten (10) minutes 'protest period', the provisional results become official and final and may be announced.
- 2.32.j The applicant of a protest cannot appeal against the decision.
- 2.32.k If the protest is upheld, the protest fee of fifty dollars (\$50 U.S.) must be returned immediately.
- 2.32.I The Race Director may without a protest being made, correct results or earlier decisions which he may deem necessary after consultation with his organizing staff and the referees.

2.33 PRIZES & PRIZE CEREMONY

- 2.33.a Immediately after the finish of the race and before the drivers leave the drivers' rostrum, the unofficial winner must be declared for the public and a symbolic first place award is presented. This award must be returned to the Organizer immediately after the unofficial ceremony.
- 2.33.b The banquet and awards' presentation is to be held on the evening of the main finals or the following day/evening. Competitors are to receive a trophy.
- 2.33.c Winners are not entitled to claim prizes.
- 2.33.d Cash prizes or any other means of payment (paper tickets or coins of an obvious exchangeable value) are strictly forbidden.
- 2.33.e At the conclusion of the Banquet and Awards' Presentation, Team Managers will be given a results' folder showing the qualification results and the final positions as a closing report.

SECTION THREE - TRACK REQUIREMENTS

3. TRACK

Minimum width: Four (4) meters.

Minimum length: Three hundred (300) meters.

The track lay-out for the FAMAR Championship event must be new or renewed in more than a 60 % of its lay-out and/or surface.

If a pre-event race is held the lay-out and/or surface must be at least 60 % different to the one to be used at the FAMAR Championship event.

As for an 30-days event: No practice must be allowed for any FAMAR Championship participant over the definitive new or renewed lay-out and/or surface and track must be closed during 30 days before the event, exceptions like club or private races to be authorized by relevant FAMAR Section Chairman.

3.1 SURFACE

Artificial surfaces must be of the same type used for road construction. They must not be potentially dangerous or pollutant. Within the total length of the track fifty per cent (50%) minimum must be from natural soil.

Any straight longer than ten (10) meters must be from natural soil.

Any section made from artificial surface must not be longer than ten (10) meters.

A natural soil section of a minimum of five (5) meters must always separate two (2) artificial surface sections.

At location of the lap counting antenna, there must not be any metallic structure.

Deterioration of the natural soil area must not uncover obstacles in the transit area between natural soil and artificial surface (overlapping slope must be smooth and of sufficient length).

The track must be suitably drained.

3.2 JUMPS AND OBSTACLES

When constructing jumps, the safety of the public and marshals must be the main priority.

Any combination of multiple jumps will be considered as a one-jump section and each track will have a minimum of four (4) jump sections

3.3 SAFETY

Safety for everybody must be the most important aspect when designing the track.

3.4 MAINTENANCE

The track surface may only be repaired at the end of qualifying.

Repairs or improvements may be made, at any time, with the concurrence of the Race Director and the Referees.

3.5 OTHER TRACK SPECIFICATIONS

- 3.5.1 A pit lane must be provided that has a convenient and safe entrance and exit to and from the racing surface. It must be separated from the racing surface by a secure barrier of the same specifications as the inner barriers for the class of cars being raced.
 - There must be a second barrier of at least the same specifications of the outer barrier between the pit lane and the working pit areas. The design of the pit lane entrance and exit must be done to prevent high speed racing in the pit-lane.
- 3.5.2 All refuelling, repairing, or servicing of cars must be done with the vehicle fully behind the barrier between the pit lane and the working pit area, and not in or over the pit lane. Cars may be placed on top of the exterior pit walls for servicing provided the wall has been designed so that the car is secure and stable.
- 3.5.3 An engine testing/tuning area will be provided at a reasonable distance, away from the pit tables. No engine to be started in the pit tables area

4.0 TRUGGY

4.1 Race.

1 round Practice - 7 minutes (best 3 consecutive laps) 5 round Qualify - 7 minutes (Same Buggy Qualify Mode Lowers Final 15 minutes (1/8 Finals, 1/4 Finals) Semi Final A & B. 20 minutes. Final - 45 minutes.

- 4.2 Engine: vide rules 1.2
- 4.3 Weight: 4.000kg
- 4.4 Fuel Tank: 150ml.

5.0 BUGGY ELECTRIC STOCK

Buggy 1/8 Electric Powered, single transmission only.

5.1 Race.

Triple Main Finals.

2 round Practice - 7 minutes (best 3 consecutive laps)

5 round Qualify - 7 minutes

After the Qualify,

First 12 Drivers = Main A, 13 till 24 position = Main B, 25 ~ 36 position = Main C Main Final A, B, C - 7 minutes.

- 5.2 Maximum Competitor 36 entries.
- 5.3 General Dimension Item 1.1
- 5.4 Tires -

In the case Handout the Organizer supply the tires, same brand/model for all Drivers.

Tires: Maximum 2 sets for all drivers, for all Control Practice, Heats and Main Finais.

- 5.5 Weight: 3.200kg
- 5.6 Batteries: LIPO HARDCASE 3s or 4s. Maximum Voltage for 3s battery is 12.6v. for 4s Battery is 16.8v. for charging LiPo safety bag is mandatory.

The Battery voltage will check before the race.

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