

15

ALL TERRAIN VEHICLES (ATV)

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APPLICATION OF CHAPTER

The Rules set out in this chapter are for the competition events using ATVs.

SECTION 15A: AUSTRALIAN CHAMPIONSHIPS

15.1 CATEGORIES FOR SENIOR AUSTRALIAN ATV CHAMPIONSHIPS

SENIOR AUSTRALIAN ATV CHAMPIONSHIPS	
SUPERMOTO	
64+ Open	
MOTOCROSS	
Pro	} Open
Intermediate	
Womens	
Veterans	
DIRT TRACK	
Pro	
Open	
Womens	
SPEEDWAY	
Pro	
Open	
TRACK	
Pro	
Open	
Womens	
ENDURO	
Up to 930cc	
Womens - Up to 930cc	

15.2 CATEGORIES FOR JUNIOR AUSTRALIAN ATV CHAMPIONSHIPS

CLASS/AGE RANGE	CAPACITY
7 to under 11 Limited	60cc to 90cc 2-stroke & 85cc to 110cc 4-stroke
8 to under 12 Comp	60cc to 90cc 2-stroke & 85cc to 125cc 4-stroke
12 to under 16 Comp	Up to 200cc 2-stroke & 250cc 4-stroke

15.3 CHAMPIONSHIP MEDALLIONS AND TROPHIES

- 15.3.1 Individual Competitions
 - 15.3.1.1 MA medallions will be presented to the 1st, 2nd and 3rd placed riders in each Championship.
- 15.3.2 All Competitions
 - 15.3.2.1 At least the first three (3) place getters in any Australian Championship event must be awarded a sash or similar permanent memento of the achievement by the Promoter, irrespective of MA awards.
 - 15.3.2.2 Medallions and points will be awarded in all Australian Championships where there are:
 - a) Eight (8) or more starters for ATV classes which actually participate in practice, qualifying or races,
 - b) Six (6) or more starters for all female classes which actually participate in practice, qualifying or races,
 - c) Six (6) or more starters for Junior ATV classes which actually participate in practice, qualifying or races.

SECTION 15B: COMPETITION CLASSES

15.4 SENIOR COMPETITION CLASSES

15.4.1 Motocross and Club Level Racing

CLASS	RACING
Open	
Pro	Skill Based
Intermediate	Skill Based
Clubmen	Skill Based
Womens	
Production	
Veterans	
Jumbos	

15.4.2 Speedway

CLASS	CAPACITY
Pro	450cc 4-stroke & 350cc 2-stroke
Open	Up to 700cc 4-stroke & Up to 550cc 2-stroke

15.4.3 Enduro/Cross Country (Desert)

ENDURO/CROSS COUNTRY: DESERT ONLY

Up to 930cc

Women - Up to 930cc

15.4.4 Sand Drag (Off Road)

SAND DRAG CLASSES

Pro

Up to 930cc

Outlaw

15.4.5 Hill Climb

HILL CLIMB CLASSES

Pro

Up to 930cc

15.5 JUNIOR COMPETITION CLASSES

CLASS/AGE RANGE	CAPACITY
4 to under 9 Limited (Non-Competitive)	50cc
7 to under 11 Limited	60cc to 90cc 2-stroke & 85cc to 110cc 4-stroke
8 to under 12 Comp	60cc to 90cc 2-stroke & 85cc to 125cc 4-stroke
12 to under 16 Comp	Up to 200cc 2-stroke & 250cc 4-stroke

SECTION 15C: COMPETITION RULES

15.6 ELIGIBILITY: GENERAL

15.6.0.1 No person may participate in an Australian Championship unless and until:

- That person's protective clothing/equipment and machine have been examined and approved by the Scrutineer for that meeting, or
- If stipulated in supplementary regulations, the person provides the Scrutineer with a signed checklist that the protective clothing/equipment and machine have been self-scrutineered.

15.6.0.2 At scrutineering, competitors must produce documents or other evidence as required to verify engine and frame identity.

15.6.0.3 The onus of proving that a competitor, and the competitor's machine and protective clothing/equipment, are eligible to compete, is on the person seeking to prove it.

15.6.0.4 Where any Rule prohibits the modification of any machine or class of machines, that machine or that class will be deemed to have been modified if any part or parts thereof have been altered from the machine or class as manufactured by the machine manufacturer.

15.6.1 Veterans

15.6.1.1 Riders must have turned 40 years before the start of the event

15.7 ELIGIBILITY: JUNIORS

15.7.1 Junior Competition

15.7.1.1 Juniors only to compete in Junior competitions

15.7.1.2 In Junior competition,

- A rider's age on 1st January will determine their age for competition purposes for that year,
- A rider may move to the next higher age class when they become eligible by reason of celebrating a birthday, but once the rider moves to that higher age class, they may not move back to the lower age class,
- Any points earned by the rider in the lower age class cannot be transferred when the rider moves to the higher age class,
- This GCR applies to all riders up to and including the age of 16 years.

15.7.1.3 Subject to GCR 15.7.1.1 and GCR 15.5.1.1, no person who:

- Has attained the age of 16 years, or
- Is unable to right their machine, or
- When standing on the machine has less than 75mm clearance between the machine seat and the seat of their pants,

may compete in any Junior ATV competition.

Note: Raised footboards or footrests are allowed in 'Limited' Junior classes.

15.7.1.4 No applicant will be issued with their first competition licence if they are under the

age of 7 years.

- 15.7.1.5 Unless otherwise permitted in writing by the relevant controlling body, for any event there must be no greater age variation between competitors than four (4) years.
- 15.7.1.6 In the 4 to under 9 years 50cc Non-competitive class, all riders are entitled to receive a prize or award of the same size/ value.
- 15.7.1.7 A relevant controlling body may permit age group racing, graded racing, or a combination of both,
- 15.7.1.8 A relevant controlling body may grade Junior competitors according to their respective skills
- 15.7.1.9 Any person participating in a non-competition activity using 50cc Machines (4 to Under 9 years), is not eligible to participate in any competition class at the same event.
- 15.7.2 Junior ATV Endorsements
 - 15.7.2.1 Endorsements will be issued for:
 - 50cc
 - 90cc 2-stroke/125cc 4-stroke
 - 200cc 2-stroke/250cc to 300cc 4-stroke

15.8 GENERAL RULES

15.8.1 Helmet Cameras

- 15.8.1.1 Helmet cameras may be fitted providing the mounting to the helmet will allow the camera to detach if impacted upon and the attachment method must not impair the integrity or operation of the helmet.

15.9 PROTECTIVE CLOTHING AND HELMETS

- 15.9.0.1 No competitor may practice, start or compete in any ATV related activity unless wearing the protective clothing and equipment as outlined in Appendix A: Protective Clothing and Equipment.

15.10 MACHINE AND RIDER IDENTIFICATION

- 15.10.0.1 Number plates, when required, must:
 - a) Display figures in contrasting Black on White colours with a minimum size of 125mm height and 20mm width of stroke,
 - b) Be mounted centrally at the front and rear of the machine.

- 15.10.0.2 Number plates are not necessary for racing where helmet colours are worn, such as in Speedway.

- 15.10.0.3 For all Motocross ATV competitions and any other event where the supplementary regulations specify, no competitor may compete unless wearing the machine identification number on their back in contrasting colours and with a minimum size of 125mm height and 20mm width of stroke.

15.11 RACE MEETING PROTOCOLS

15.11.1 Flags and Signals

- 15.11.1.1 The minimum dimensions of all flags must be 500mm x 500mm.
- 15.11.1.2 Track flags and signals as per Appendix B: Track Flags & Signals.
- 15.11.1.3 The National flag signifying the start of an event may be replaced by:
 - a) A light signal,
 - b) A starting tape,
 - c) A rubber band, or
 - d) A dropping gate.

15.11.2 Measurement at Meetings

- 15.11.2.1 A Steward of a meeting may direct the measurement of the capacity of the engine of any machine, to be carried out at the conclusion of the meeting. Until the measurement is completed the machine must remain under the control of the relevant controlling body.
- 15.11.2.2 If an engine is measured at the request of a rider or entrant, that rider or entrant is liable for the cost of the measurement.

15.11.3 Measurement: All Australian and State Championship Events

- 15.11.3.1 The 1st, 2nd, 3rd and 4th placed machines must be impounded for a period of 30 minutes immediately following the event, pending any protest, and the event result will be provisional,
 - a) At the conclusion of that period, if no protest is received, the result will be final,
 - b) If the machines are to be ridden in another event within that period, they must be sealed or marked before being returned to the competitor for that event,

- c) If no protest is received within that period, the seals or markings may be removed,
- 15.11.3.2 Any machine sealed as the result of a protest may only be measured by a measurer. All measurer's reports, together with the seals, must be delivered to the relevant controlling body within 21 days after the event,
- 15.11.3.3 No prize monies may be paid until measurer's reports and seals are received or the expiration of 21 days whichever occurs first.
- 15.11.4 Starts
- 15.11.4.1 Unless otherwise determined in the supplementary regulations, massed starts must be used.
- 15.11.4.2 The order and position of each competitor will be at the discretion of the Promoter and will be determined on the day of the event.
- 15.11.4.3 The starting grid for all Motocross and Dirt Track events will:
- Have not less than two metre space for each ATV,
 - Be in a straight line,
 - Allow for no more than 20 competitors.
- 15.11.4.4 The maximum number of starters must be specified in the supplementary regulations.
- 15.11.4.5 Unless otherwise determined in the supplementary regulations:
- All competitors must be called to the start line at least two minutes before each start,
 - At the end of the two minutes, and when the starter is ready, the starter will hold up a 15 second sign for a full 15 seconds,
 - At the end of 15 seconds a five second sign will be displayed,
 - The gate will drop between five and 10 seconds after the five second sign is shown.
- 15.11.5 Finishes
- 15.11.5.1 The finish line must be:
- Marked with a flexible post at each side of the track,
 - Clearly visible to the judge.

15.11.6 Scoring

15.11.6.1 All races will be scored using the scoring system below:

PLACE	POINTS	PLACE	POINTS	PLACE	POINTS
1	35	11	20	21	10
2	32	12	19	22	9
3	30	13	18	23	8
4	28	14	17	24	7
5	26	15	16	25	6
6	25	16	15	26	5
7	24	17	14	27	4
8	23	18	13	28	3
9	22	19	12	29	2
10	21	20	11	30	1

- 15.11.6.2 An alternative points scoring system may be approved for an MA series event.
- 15.11.6.3 If a tie on points occurs for any position in an event which is conducted over more than one leg, the tying competitor who has the higher finishing position in the final leg of the event will be awarded the position.
- 15.11.6.4 If a tie on points occurs for any position in a series, the tying competitor who has the greatest number of higher placings in the series will be awarded the position.
- 15.11.7 Pro Class
- 15.11.7.1 Race duration for Championships is 15 minutes plus one lap.
- 15.11.7.2 Riders entering this class cannot enter any other race class at the same event
- 15.11.7.3 Event promoters can only offer either Pro or Open (one class per event).
- 15.11.8 Open Class
- 15.11.8.1 Race duration for Championship is 12 minutes plus one lap.
- 15.11.8.2 Riders entering this class cannot enter any other race class at the same event.
- 15.11.8.3 Event promoters can only offer either Pro or Open (one class per event).
- 15.11.9 Intermediate
- 15.11.9.1 This is a skill-based class for experienced riders.
- 15.11.9.2 Race duration for Championship is 12 minutes plus one lap.

15.11.9.3 Event promoters cannot offer this class if offering an Open class at the same event.

15.11.10 Clubmen

15.11.10.1 This is a skill-based class.

15.11.10.2 Recommended race duration is four laps.

15.11.11 Womens

15.11.11.1 Race duration for Championships is 10 minutes plus one lap.

15.11.12 Production

15.11.12.1 Machines must remain OEM as available through Australian dealer network. Machines must satisfy 15.15.1.1.

15.11.12.2 Rider's choice of:

- a) Tyres to same specified dimensions as OEM fitment,
- b) Handle bar grip replacements to OEM style,
- c) Lubricants and fluids,
- d) Decals and sign writing,
- e) Drive chain and gearing changes allowed,
- f) Recommended race duration is five laps.

15.11.13 Veterans Class

15.11.13.1 Race duration for Championships either four laps or over eight minutes in time.

15.11.14 Jumbos Class

15.11.14.1 90cc 2-stroke and 125cc 4-stroke.

15.11.14.2 Sub-classes:

- a) Jumbo:
 - i) Frame OEM;
 - ii) Engine cases OEM or OEM-type (must be direct bolt-on in replacement, utilising standard engine mounts).
- b) Outlaw:
 - i) Sub-class not scored,
 - ii) Change of engine type allowed,
 - iii) Jumbo class engine capacity limit only.

15.11.14.3 Sub-classes may run together and may be scored separately if minimum of three riders in each class.

15.11.14.4 Recommended race duration is three laps.

15.11.15 Stadium Classes (Arena Cross)

15.11.15.1 Open engine capacities as per 15.14.3.1

and 15.14.3.2.

15.11.16 Dirt Track and Track Classes

15.11.16.1 Open engine capacity as per 15.14.3.1 and 15.14.3.2.

15.11.17 Sand Drag

15.11.17.1 Pro Class and Up to 930cc Class may be run and scored together. Class structure to be detailed in the supplementary regulations

15.11.17.2 Outlaw (experimental) specifications:

- a) Displacement not limited, but machine must be fitted with a motorcycle-based engine.
- b) Nerf bars must be fitted to cover any exposed foot pegs. They should be able to catch the foot from hitting the ground if it slips forward or back, and surround the end of the foot peg to protect the racer from a potential puncture injury in the event of a roll over. A closed loop design with no open ended tubing must be used.

SECTION 15D: TECHNICAL REGULATIONS

15.12 SOUND EMISSIONS

15.12.0.1 Sound testing must be carried out at all permitted events however it is not mandatory to test all machines

15.12.1 Specifications

15.12.1.1 Sound emissions are set out in the tables below:

2 Metre Max Method	
DISCIPLINE	LIMIT dB(A)
Motocross	112 + a 4dB(A) tolerance
Supermoto	112 + a 4dB(A) tolerance
Enduro & Reliability Trials	112 + a 4dB(A) tolerance
Speedway	115 +3dB(A) tolerance
30 Metres (from side of track) Ride-by Test	
DISCIPLINE	LIMIT dB(A)
Dirt Track & Track	95
Record Attempts	No limit

- 15.12.1.2 Where government regulations or planning orders exist in relation to lower sound emissions or where a venue has lower sound emission requirements as part of the hire contract, the sound emission required will prevail over GCR 15.12.1.1.
- 15.12.2 Sound Control during Competition**
- 15.12.2.1 The Sound Control Officer (SCO) must arrive in sufficient time for discussions with the Clerk of the Course and other Technical Officials in order that a suitable test site and testing policy can be agreed.
- 15.12.2.2 Machines can be tested before, or after competing in an event, chosen by ballot, or as required by a Steward, Clerk of Course or SCO.
- 15.12.3 Use of Sound Level Meters**
- 15.12.3.1 Sound testing apparatus must:
- Comply with International standard IEC 651, Type 1 or Type 2.
 - Include a compatible calibrator, which must be used immediately before testing begins and always just prior to a re-test if a disciplinary sanction may be imposed.
- 15.12.3.2 Sound testing apparatus must be set to:
- 'Fast response',
 - 'A' weighted,
 - Select range High 80~130 dB,
 - Activate the function MAX MIN - set on MAX,
- 15.12.3.3 '30 Metre Ride-by' test:
- The sound levels will be measured with the sound meter/microphone fixed on a tripod, in the horizontal position, 30 metres from the edge of the track at a high speed point.
- 15.12.3.4 '2 Metre Max' set up of the sound meter and the motorcycle:
- The sound levels will be measured with the sound meter/microphone fixed on a tripod, in the horizontal position, at the rear of the motorcycle.
 - For the place and position of the motorcycle, ensure that there are no solid obstacles within a 10 metre radius of the microphone.
- The sound meter will be positioned at a distance of two metres behind the motorcycle, with an angle of 45° away from the centerline, on the exhaust side and at a height of 1.35 metres above the ground, with the sound meter level.
 - It is preferred that the tests are conducted on soft ground, to prevent reverberation, i.e. grass or fine gravel.
 - In other than moderate wind, machines should face forward in to the wind direction.
 - The ambient sound level must remain lower than 100 dB(A).
- 15.12.3.5 '2 Metre Max' positioning of the motorcycle:
The reference points:
- For ATV vehicles: the vertical line to the ground from the centre point of the rear axle.
 - For ATV vehicles with exhaust outlet moved from the median axis, the measurement will be made on the side the exhaust is on. To make repetitive measurements, all motorcycles can be positioned into a small frame fixed on the ground.
- 15.12.3.6 '2 Metre Max' method:
- The measurement is made with the motorcycle on its wheels, with a hot engine.
 - The SCO should stand beside the motorcycle, opposite the microphone and not screen or stand between the motorcycle and the microphone.
 - The SCO shall open the throttle as fast as possible until full open throttle (instantly, within 0.3 seconds) and keep at max engine 'rpm' for at least one second. To end, the SCO will release the throttle quickly.
 - If the result exceeds the limit, including 'after fire', the Inspector shall test the motorcycle a maximum of two more times.
 - For motorcycles equipped with an engine rpm limiter, opening the throttle will be made - instantly, within 0.3 seconds - and kept open until at

least one second has evolved and/or when there is an audible sign of over revving the engine.

- f) For motorcycles without an engine 'rpm' limiter, the opening of the throttle will have to be lower than two seconds and/or when there is an audible sign of over-revving the engine.
- g) If the engine tends to suffocate, close the throttle slightly and re-open the throttle.
- h) If detonations appear, the measurement must be started again.
- i) The numbers obtained from the test shall not be rounded down.
- j) For the sound level measurement, the handling of the throttle is limited only to the SCO, who shall open the throttle himself in order to minimize the influence by another operator (for that, it is helpful to have the microphone equipped with an extension cable to the sound meter).

15.12.3.7 Tests shall not take place in the rain

15.12.4 Machine Testing

15.12.4.1 If a machine fails, it can be represented for re-testing.

15.12.4.2 No person may compete in any event on a machine whose noise emissions exceed the prescribed levels.

15.12.4.3 A machine which does not comply with the sound limits can be presented several times.

15.13 FUEL

15.13.1 Warning

15.13.1.1 Fuels and lubricants are highly specialised substances and participants must be aware they may contain substances that are extremely dangerous to human health if misused, inhaled or allowed to contact skin.

15.13.1.2 Some of the components of fuel and lubricants are suspected of having the potential to cause cancer in rare circumstances.

15.13.1.3 The use of petrol as a general cleaning and washing agent is a common misuse of a potentially dangerous substance.

15.13.1.4 Fuels should be used and stored with extreme care and in accordance with the manufacturer's instructions.

15.13.2 Fuel Testing

15.13.2.1 For any event, meeting or series, the Relevant Controlling Body may direct that no fuels other than fuels of prescribed specifications and from a prescribed source may be used.

- a) Tests to ensure that only prescribed fuels are used in an event, meeting or series may be administered at any time and place during the course of the same,
- b) The Clerk of Course, Race Director or Chief Scrutineer may direct the administration of fuel tests.

15.13.2.2 Fuel tests must comply with the following procedures:

- a) All containers for holding samples must be clean and constructed of robust non-reactive impermeable material, must be sealable, and must have provision for identification,
- b) Equipment used for the extraction of fuel from machines must be clean and constructed of fuel non-reactive material,
- c) All samples must be divided into two lots (Sample A and Sample B) of not less than 5ml each, which must be placed in separate containers,
- d) Once samples are placed in containers, the containers must immediately be sealed and identified by reference to the machine from which the sample was taken. This information must be entered on a fuel sample certificate which must certify the date, place and time of taking the sample, the identity of the machine from which the sample was taken and the identity of the rider,
- e) Both samples must remain in the control of the official who administered the test.
- f) The rider or the representative must sign the fuel sample certificate acknowledging samples have been taken and are sealed,
- g) All samples held by the official must

be delivered as soon as practicable after the competition to the Relevant Controlling Body which must deliver the Sample A as soon as practicable to a laboratory approved by MA where they must be tested for content and quality in accordance with standard scientific procedures,

- h) The Relevant Controlling Body must as soon as practicable after receipt of the results notify the rider or rider's team representative and MA,
- i) If the rider is dissatisfied with the test result of Sample A, they may request Sample B be tested at an MA approved laboratory in their presence.

15.13.3 Refueling

15.13.3.1 During refueling, each machine must be stationary with the engine stopped.

15.13.3.2 Refueling will be deemed to have commenced when the fuel tank has been opened and completed when the tank is closed.

15.13.3.3 Smoking is strictly prohibited in areas where refueling is permitted.

15.13.3.4 Riders are liable for exclusion from an event for failing to adhere to GCR 15.13.3.3, and are responsible for the actions of their mechanics and support team members.

15.13.4 Homologation of Fuel

15.13.4.1 Unleaded fuel produced by an oil company for sale in the Australian general transport fuel market through retail petrol pumps in at least five (5) States does not have to be homologated. For the avoidance of doubt this means the fuel must be available for sale on demand from a roadside bowser outlet at each of at least five (5) separate service stations in each of at least five (5) Australian States or Territories.

15.13.4.2 Organisations seeking homologation of fuel must provide MA with:

- a) Two one-litre sealed containers of the fuel for analysis,
- b) Details of the fuels characteristics,
- c) The distribution network,
- d) The price structure,
- e) A homologation fee of \$2500 in

the first year and \$2000 per year thereafter.

15.13.4.3 Fuels approved under this GCR will be published at www.ma.org.au.

15.13.5 Fuel: ATVs

15.13.5.1 Fuel for all machines must:

- a) Be Unleaded, and
- b) Be no more than 100 RON, and
- c) Contain no additives other than those added at the point of manufacture except for:
 - i) Lubricating oil for 2-stroke engines
 - ii) Upper cylinder lubricant for 4-stroke engines, and
- d) Be readily available in Australia as per GCR 15.13.4.1; or
- e) Be a brand of fuel homologated by MA that is compatible with the Fuel Quality Standards Act 2000

15.14 ENGINES

15.14.1 Reciprocating Engines

15.14.1.1 Formulae for Calculation of Capacities and Classes

$$\text{Cubic capacity} = \frac{(D^2 \times 3.1416 \times C \times N)}{4}$$

Where:

D = Bore in centimetres

C = Stroke in centimetres

N = Number of cylinders

15.14.2 Superchargers and Turbochargers

15.14.2.1 Superchargers and turbochargers must not be fitted to any ATV in any competition.

15.14.3 Engine Capacity and Tolerances

15.14.3.1 The maximum engine capacity for a 2-stroke engine ATV shall not exceed 550cc, and be no more than two cylinders.

15.14.3.2 The maximum capacity for a 4-stroke engine ATV shall not exceed 700cc for:

- a) Stadium Classes,
 - b) Dirt Track,
 - c) Motocross,
 - d) Club Level Racing,
- and be no more than two cylinders

- 15.14.3.3 The maximum capacity for a 4-stroke engine ATV shall not exceed 930cc for:
- Enduro/Cross Country,
 - Desert Classes,
 - Sand Drags Classes,
- and be no more than two cylinders.
- 15.14.3.4 The actual engine capacity of a machine competing in a capacity class is not to exceed the prescribed capacity for that class by more than 5% with the exception of the 450cc 4-stroke class and the 350cc 2-stroke class where no engine displacement increase tolerance is allowed.
- 15.14.3.5 All 'Pro' classes are capacity limited to 450cc 4-stroke or 350cc 2-stroke with no oversizing tolerance.
- 15.14.3.6 Where in Junior competition, the words OEM standard or Limited are used, all ATVs must be OEM machines with no modifications. OEM type engine replacement is accepted (or other standard parts). Any engine or part must be a direct bolt-in replacement with identical engine mounting points and using standard OEM frame engine mounts.
- 15.14.3.7 Where 'Limited' is used in Junior competition, all machines must be built to have a maximum unrestricted speed of 48 km/h or less. All machines that comply with SVIA standard, category Y-10+ATV or Y-12+ATV meet this requirement. All ATVs must be standard ATVs built and strictly be in OEM specification as per GCR 15.14.3.6.
- 15.14.3.8 Where 'Comp' is used in Junior competition, modifications are allowed. Eligible machines meeting the specified engine displacements of the class (with or without modifications) may include, OEM 'race ready' type machines through to Limited machines modified for competition use.
- 15.14.3.9 All Junior ATVs up to and including 90cc 2-stroke and 125cc 4-stroke Limited and Comp classes must retain OEM engine cases and frames, see GCR 15.14.3.6 for exceptions.
- 15.14.3.10 Junior 200cc 2-stroke and 250cc 4-stroke Comp classes may fit a 200cc 2-stroke or

250cc 4-stroke engine from an off-road motorcycle of the same manufacturer to a larger capacity chassis ATV. Only air-cooled Yamaha Raptor 250 and Honda TRX300 machines may increase standard engine displacement up to 300cc +5% tolerance.

15.15 FRAMES AND PARTS

15.15.1 General

15.15.1.1 An ATV must have:

- Four wheels,
- A wheel at each corner of the machine,
- The front wheels which are used for steering and the rear wheels for driving,
- A maximum overall width including the rear tyres of 1300mm. The ATV must freely push through two vertical fixed objects (poles) spaced at 1300mm.
- A seat for one person,
- The rider straddling the seat,
- A frame [Nerf Bar] between the front and rear wheels which must:
 - Be of closed loop design,
 - Not extend beyond a point of the widest dimensions of the vehicle, measured with a straight edge touching the outside of the front and rear tyres,
 - Be constructed to prevent the rider's feet from going below the bars (material webbing is acceptable),
 - Be bolted or welded to the frame,
 - Be close enough to the front and rear wheels to prevent locking together of competitors' machines,
 - Have no sharp, protruding tubing either open ended or capped,
 - Have heel guards which are compulsory on all ATV machines.
- A self-closing throttle,
- An engine cut-out switch, of lanyard type attached to the rider's body,

- j) Effective brakes on all wheels,
- k) Handlebars, rubber hand grips, handlebar levers and number plates,
- l) No sharp or protruding extremities,
- m) Glass, mirrors and headlights removed.
- n) For MX, Speedway, Flat track, Track and Motard style racing, a front-mounted bumper bar which must comply with specifications listed in GCR 15.15.1.1 g), i), iv), vi) and clause l).

15.15.1.2 Mudguards which:

- a) Must be fitted over the rear wheels,
- b) May be fitted over the front wheels.

15.15.2 Tyres

- 15.15.2.1 Rear tyres may be prescribed in the supplementary regulations.