

22

QUADS

22.1 PROTECTIVE CLOTHING – QUADS

22.1.0.1 Protective clothing and requirements are as provided in the discipline specific sections of the GCRs, **clothing for Hill Climb, Motokhana, Drifting and non speed related bitumen events must be as per specified in GCR 20.1. In addition all quad competitors must wear commercially manufactured body armour.**

22.2. FOOTWEAR IN PITS

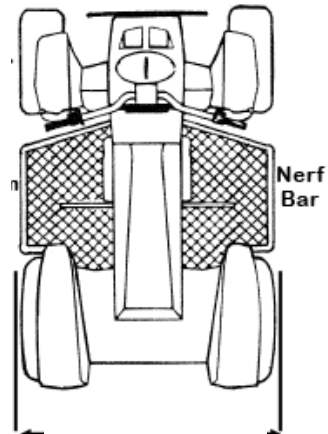
22.2.0.1 Closed footwear must be worn in the pit area at all times.

22.3 FRAMES AND PARTS - QUADS

22.3.0.1 A quad must have:

- a) 4 wheels,
- b) A wheel at each corner of the machine,
- c) The front wheels must be used for steering and the rear wheels for driving,
- d) A maximum overall width, including the rear tyres of ~~1400mm~~ **1270mm (50 inch)**,
- ~~e) A maximum wheel base of 1500mm,~~
- f) There must be a seat for 1 person,
- g) The rider must straddle the seat,
- h) A chain guard as per GCR 12.8.8,
- i) A frame [Nerf Bar] between the front and rear wheels which must:
 - i) Be of closed loop design,
 - ii) 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,
 - iii) Constructed to prevent the riders feet from going below the bars (material webbing is acceptable),

- iv) Be bolted or welded to the frame,
- v) Be close enough to the front and rear wheels to prevent locking together of competitors' machines,
- vi) Have no sharp, protruding **tubing either open ended or capped or open end tubing.**
- j) A self closing throttle,
- k) An engine cut-out switch, of lanyard type attached to the body,
- l) Effective brakes on all wheels,
- m) Handlebars, rubber hand grips, handlebar levers and number plates,
- n) Noise emissions of no more than 94/96 dB(A) as measured in GCR 12.10. depending on the discipline,
- o) No sharp or protruding extremities,
- p) Glass, mirrors and headlights removed.



- 22.3.0.2 Mudguards which:
- Must be fitted over the rear wheels,
 - May be fitted over the front wheels.
- ~~22.3.0.3 All Junior quads must retain OEM engine cases and frames.~~
- 22.3.0.4 Reducing the capacity of larger machines to suit the class capacity is not permitted:
- 22.3.1 Tyres- Quads**
- 22.3.1.1 Rear tyres may be prescribed in the SR.

22.4 ENGINES - QUADS

22.4.1 Capacities - Quads

Note: From January 1, 2013 the Senior Pro Class/s will be titled Pro450 where capacity will be limited to 450cc 4 stroke or 350cc 2 stroke with no oversizing tolerance. Where the class name 'Pro450' is used, these capacities and no oversizing tolerance apply.

- 22.4.1.1 The maximum engine capacity for a 2-stroke engined quad shall not exceed 550cc, and be no more than 2 cylinders.
- 22.4.1.2 The maximum capacity for a 4-stroke engined quad shall not exceed 700cc and be no more than 2 cylinders.
- 22.4.1.3 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.**
- 22.4.1.4 Where in Junior competition, the words OEM standard **or Limited** are used, all quads must be OEM machines with no modifications. **OEM type engine replacement 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.**
- 22.4.1.5 Where in Junior competition "Limited" is used, all machines must comply with, or be equivalent to SIVA standard, category Y-10+ATV where

the maximum unrestricted speed must be 48kph (30mph) or less. All quads must be standard quads built and strictly be in OEM specification as per 22.4.1.4.

- 22.4.1.6 Where in junior competition "Comp" is used, modifications are allowed. Quads can be either OEM "race ready" type machines or Limited machines modified for competition use.**

22.4.2 RIDER AND MACHINE IDENTIFICATION - QUADS

- 22.4.2.1 Number plates are to:

- ~~Comply with CGR 42.6~~ **To display numbers in contrasting Black on White colours with a minimum size of 125mm height and 20mm width of stroke,**
- Be mounted centrally at the front and rear of the machine.
- Not necessary for racing such as Speedway where helmet colours are worn.**

- 22.4.2.2 **For all MX competitions and any other event that the Supplimentary Regulations specifically select this rule, no competitor may compete unless wearing the machine identification number on his or her back in contrasting colours and with a minimum size of 125mm height and 20mm width of stroke.**

22.5 FUEL - QUADS

- 22.5.0.1 Fuel for all machines must:
- Be Unleaded, and
 - Be no more than 100 RON, and
 - Contain no additives other than those added at the point of manufacture except for lubricating oil for 2-stroke engines, and
 - Be readily available from retail petrol pumps within Australia, or
 - Be a brand of fuel homologated by MA that is compatible with the "Fuel Quality Standards Act 2000"

22.6 CLASSES AND AGE GROUPS - QUADS

22.6.1 Quads - Motocross and Club Level Racing

JUNIOR CLASS(ES)	RACING
50cc SFB Limited	No suspension
50cc SFB Limited	With suspension
90cc 2-stroke Limited Standard.	Race Together
110cc 4-stroke Limited Standard.	
90cc 2-stroke Comp Modified	Race Together
110cc 125cc 4-stroke Comp Modified	
200cc 2-stroke Comp Modified Air-Cooled	Race Together
300cc 4-stroke Comp Modified Air-Cooled	
200cc 2-stroke Modified Water Cooled	Race Together
300cc 4-stroke Modified Water Cooled	
Open 2-stroke Modified, (max capacity 550cc)	Race Together
Open 4-stroke Modified, (max capacity 700cc)	
SENIOR CLASS(ES)	RACING
Pro	Skill Based
Open	
Intermediate	Skill Based
Clubman	Skill Based
Woman	
Production	
Vets 35+	
Masters 45+	
Jumbos	

22.6.1.1 Pro

Australian Championship Class. Championship status can only be awarded if 8 or more riders start in the event. Race duration for Championships - 15 minutes plus 1 lap. Riders cannot enter any other race class at the same event. Event promoters can only offer either Pro or Open (either one class per event).

22.6.1.2 Open

Riders cannot enter any other race class at the same event. Race duration for Championships 12 minutes plus 1 lap. Event promoters can only offer either Pro or Open (either one class per event).

22.6.1.3 Intermediate

Australian Championship Class. Championship status can only be awarded if 8 or more riders start in the event. This is a skill based class for experienced riders. Race duration for Championships - 12 minutes plus 1 lap.

22.6.1.4 Clubman

This is a skill based class for beginner riders. Recommended race duration - 4 laps.

22.6.1.5 Woman's

Australian Championship Class. Championship status can only be awarded if 8 or more riders start in the event. Race duration for Championships - 10 minutes plus 1 lap.

22.6.1.6 Production

Standard, OEM as available through Australian Dealer network. Machines must satisfy 22.3.0.1

Riders choice of:

- Tyres to same specified dimensions as OEM fitment.
- Handle bar grip replacements to OEM style.
- Lubricants and fluids
- Decals and sign writing
- Drive chain and gearing changes allowed
- No other modifications allowed.

Recommended race duration - 5 laps.

22.6.1.7 Vets

Australian Championship Class. Championship status can only be awarded if 8 or more riders start in the event. Age group 35+ years. Race duration for Championships either 4 laps or over 8 minutes in time.

22.6.1.8 Masters

Australian Championship Class. Championship status can only be awarded if 8 or more riders start in the event. Age group 45+ years. Entrants can only enter either Vets or Masters in any event. Race duration for Championships either 3 laps or over 6 minutes in time.

22.6.1.9 Jumbos.

90cc 2 stroke and 125cc 4 stroke

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.

Sub classes run together and may be scored separately if minimum of 3 riders in each class.

Recommended race duration - 3 laps.

22.6.2 Quads - Stadium Classes (Arena Cross)

Open engine capacities as per 22.4.1.1 and 22.4.1.2

CLASS(ES)	RACING
Open 2-stroke Modified, (max capacity 550cc)	Race Together
Open 4-stroke Modified, (max capacity 700cc)	

22.6.3 Quads- Dirt Track Classes

Open engine capacity as per 22.4.1.1 and 22.4.1.2

CLASS(ES)	RACING
Open 2-stroke modified (max. capacity 550cc)	Race together
Open 4-stroke modified (max. capacity 700cc)	

450cc single cylinder
4-stroke
300cc single cylinder
2-stroke:

Race together

22.6.4 Quads- Speedway

CLASS(ES)	RACING
Open Outlaw Senior 451cc to 700cc 4-stroke	Race together
Open Outlaw Senior 351cc to 550cc 2-stroke	
Pro Senior 450cc 4-stroke	Race together*
Pro Senior 350cc 2-stroke	
Junior 12 to 15 years 350cc 4-stroke	Race together
Junior 12 to 15 years 200cc 2-stroke	
Junior 9 to U13 years 110cc 4-stroke modified	Race together*
Junior 9 to U13 years 90cc 2-stroke modified	
Junior 7 to 10 years 110cc 4-stroke OEM	Race together
Junior 7 to 10 years 90cc 2-stroke OEM	
Junior 9 to 12 years 110cc 4-stroke OEM	Race together*
Junior 9 to 12 years 90cc 2-stroke OEM	
Junior 7 to 9 years 50cc Auto and Semi Auto OEM (Competitive class)	
Junior 5 to U9 years 50cc Auto and Semi Auto OEM (Non-Competitive class)	
Open (Senior) 451cc to 700cc 4 stroke	Race together
351cc to 550cc 2 stroke	
Pro450 (Senior) 450cc 4 stroke	Race together
350cc 2 stroke	
Junior 12 to 15 years 300cc 4 stroke Comp	Race together
200cc 2 stroke Comp	
Junior 9 to U13 years 125cc 4 stroke Comp	Race together
90cc 2 stroke Comp	
Junior 7 to 10 years 110cc 4 stroke Limited	Race together
90cc 2 stroke Limited	

Junior 9 to 12 years 110cc 4 stroke Limited 90cc 2 stroke Limited	Race together
Junior 7 to 9 years 50cc auto & semi auto Limited	Competition class
Junior 5 to U9 years 50cc auto & semi auto Limited	Non competition class

*Zero Tolerance

22.6.5 Quads- Enduro/Cross Country, Desert Classes

ENDURO/CROSS COUNTRY. DESERT ONLY
Up to 850cc 2WD/4WD
Womans Up to 850cc 2WD/4WD

22.6.6 Junior Age Groups

22.6.6.1 Subject to the next sub rule and GCR 12.16.0.1, no person who:

- Has attained the age of 16 years, or
- Is unable to right their machine may compete in any junior competition.

c) **No person who: 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 competition. Raised footboards or footrests are allowed in "Limited" junior classes.**

22.6.6.2 No junior who has attained the age of 9 years may participate on a 50cc machine.

22.6.6.3 Junior competitors in the following age groups may compete in the corresponding classes:

AGE RANGE	CLASS(ES)
5 to under 9 years	50cc non-competition mini- Limited Standard
7 to under 9 years	50cc Auto or Semi Auto Limited Standard.
7 to under 10 yrs	up to 90cc 2-stroke or and 110cc 4-stroke Limited Standard.
9 to under 13 yrs	up to 90cc 2-stroke or and 110cc 4-stroke Limited Standard.

9 to under 13 yrs	up to 90cc 2-stroke or and 440cc 125cc 4-stroke - Comp Modified.
12 to under 16 yrs	up to 200cc 2-stroke or and 300cc 4-stroke.- Comp Modified
15 to under 16 yrs	up to 200cc water cooled- 2-stroke Modified or 300cc- water cooled 4-stroke Modified

22.6.7 Quads - Sand Drags classes (off road)

Pro450

Up to 850cc

Outlaw (see specifications)

Note: Pro450 and Up to 850cc may be run and scored together

Outlaw (experimental) specs.

Displacement not limited but machine must be fitted with a motorcycle based engine. Nerf bars should 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.

Track Standards

Track length 91.5m (300ft or 100yds) with minimum 200m straight line distance of clear run down, not immediately further disadvantaged by solid objects such as large trees, etc. (Safety fence, undergrowth or Sand mounds permitted). Only 2 racers can be raced together and they must be separated by a minimum distance of 4 meters at the start. Spectators must view from behind a marked line 5m from the nearest racing lane at the start end, tapering to 10m at the finish end. Spectators must only view from one side of the track that must be on the opposite side to the separate track return chute. This return chute must be minimum 10m from the nearest racing lane.

22.6.8 Quads - Hill Climb classes**Pro450****Up to 850cc****22.7 COMPETITION RULES - QUADS****22.7.1 Starting**

22.7.1.1 Unless otherwise determined in the SR, massed starts must be used.

22.7.1.2 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.

22.7.1.3 The starting grid for all events will:

- a) Have not less than 2 metre space for each quad,
- b) Be in a straight line,
- c) Allow for no more than 20 competitors.

22.7.1.4 The maximum number of starters must be specified in SR.

22.7.1.5 Unless otherwise determined in the SR:

- a) All competitors must be called to the start line at least 2 minutes before each start,
- b) At the end of the 2 minutes, and when the starter is ready, the starter will hold up a 30 second sign for a full 30 seconds,
- c) At the end of 30 seconds a 5 second sign will be displayed,
- d) The gate will drop between 5 and 10 seconds after the 5 second sign is shown.

22.7.2 Finishing

22.7.2.1 The finish line must be:

- a) Marked with a flexible post at each side of the track,
- b) Clearly visible to the judge.