



# 14 SPEEDWAY

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**APPLICATION OF CHAPTER**

The Rules set out in this chapter are for the discipline of Speedway.

**SECTION 14A: AUSTRALIAN CHAMPIONSHIPS**

**14.1.1 CATEGORIES FOR SENIOR AUSTRALIAN SPEEDWAY CHAMPIONSHIPS**

SENIOR SPEEDWAY
Solo Individual
Under 21
Sidecar
Pro-ATV
Open-ATV

**14.2 CATEGORIES FOR JUNIOR AUSTRALIAN SPEEDWAY CHAMPIONSHIPS**

AGE RANGE	CAPACITY/CLASS
9 to under 16 Individual	125cc Solo
9 to under 16 Teams	125cc Solo
13 to under 16 Individual	250cc Solo
11 to under 16 - Rider	250cc Sidecar
9 to under 16 - Passenger	

**14..3 CHAMPIONSHIP MEDALLIONS AND TROPHIES**

**14..3..1 Individual Competitions**

14.3.1.1 MA medallions will be presented to the 1st, 2nd and 3rd placed riders in each Championship solo class and 1st, 2nd and 3rd placed rider and passenger in the Championship sidecar class at all Australian Championship events.

**14..3..2 All Competitions**

14.3.2.1 At least the first 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.

14.3.2.2 Medallions and points will be awarded in Australian Speedway Championships where there are:

- Senior & Under 21 Solo starters 16
- Senior Sidecar starters 16
- Junior 250cc Solo starters 13
- Junior Sidecar starters 9
- Junior 125cc Solo starters 16
- Junior 125cc Solo Teams starters 14

**14..3..3 Duke of Edinburgh Trophies**

14.3.3.1 The Duke of Edinburgh Trophies will be inscribed each year with the names of the winners of the highest capacity solo and sidecar Australian Championship for the Speedway.

14.3.3.2 The trophies will be held by MA.

**SECTION 14B: COMPETITION CLASSES**

**14.4 JUNIOR COMPETITION CLASSES**

AGE RANGE	CAPACITY/CLASS
4 to under 9	50cc Demo Class (Non-competitive)
7 to under 9	50cc Auto Class
7 to under 9	125cc single cylinder 4-stroke Solo
9 to under 16	125cc single cylinder 4-stroke Solo
13 to under 16	250cc Solo
14 to under 16	350cc Solo
11 to under 16	250cc 4-stroke Sidecar Rider
9 to under 16	250cc 4-stroke Sidecar Passenger

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**SECTION 14C: COMPETITION RULES**

**14.5 ELIGIBILITY: GENERAL**

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

- a) That person's protective clothing/equipment and machine have been examined and approved by the Scrutineer for that event, or
- d) 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.

14.5.0.2 At scrutineering, competitors must produce documents or other evidence

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as required to verify engine and frame identity.

- 14.5.0.3 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.
- 14.5.0.4 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 OEM.
- 14.5.0.5 In the interpretation of any Rule relating to the design requirements for any machine or class of machines, reference may be made to relevant diagrams appearing in these Rules.

**14..6 ELIGIBILITY: JUNIORS****14..6..1 General**

- 14.6.1.1 In Junior competition,
- a) A rider's age on 1st January will determine their age for competition purposes for that year,
  - b) 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,
  - c) Any points earned by the rider in the lower age class cannot be transferred when the rider moves to the higher age class.

14.6.1.2 No person who is unable to lift his or her machine unaided from the horizontal to the vertical may compete in any Junior competition.

14.6.1.3 Subject to GCR 14.6.1.2 a), a Junior who is under the age of 9 years may compete on a 50cc automatic machine despite being unable to lift the machine unaided from the horizontal to vertical.

14.6.1.4 Unless otherwise permitted in writing by the Relevant Controlling Body, for any event there must be no greater age variation between competitors than 4 years.

14.6.1.5 In the 4 to under 9 years 50cc Noncompetitive class, all riders are entitled to receive a prize or award of the same size/ value.

14.6.1.6 Subject to the following two GCRs, a Relevant Controlling Body may permit age group racing, graded racing, or a combination of both.

14.6.1.7 Age group racing: Only competitors in the same age groups may compete against each other.

14.6.1.8 A Relevant Controlling Body may grade Junior competitors according to their respective skills.

**14..6..2 Junior Speedway Endorsements**

14.6.2.1 Juniors must have the appropriate endorsement to enter any Speedway competition. Refer to the MA Licence Conditions Document, available at [www.ma.org.au](http://www.ma.org.au)

## 14..7 GENERAL RULES

### 14..7..1 Homologation

14.7.1.1 For any competition, MA may require that any machine, or any part of a machine, including tyres, be homologated. For homologation details contact MA.

### 14..7..2 Cameras

14.7.2.1 Cameras may be fitted to the motorcycle provided they are securely mounted. Camera mounts are subject to approval by the Chief Scrutineer. Helmet cameras are not permitted unless the camera is integrated into the helmet, by design of the manufacturer. Cameras cannot be attached to any part of the competitors body.

## 14..8 PROTECTIVE CLOTHING AND HELMETS

14.8.0.1 No competitor may practice, start or compete in any Speedway competition unless wearing the protective equipment and clothing as outlined in Appendix A: Protective Clothing and Equipment.

## 14..9 RIDER IDENTIFICATION

### 14..9..1 Helmet Colours

- a) Speedway competitors must wear helmet colours as prescribed in the program for the competition, selected from the following table and subject to the following sub-Rules:
- b) At all race meetings, competitors must wear racing numbers allocated by the

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Relevant Controlling Body as follows:

- i) A number worn on a competitor's back which must:
  - Measure 230mm x 230mm,
  - For solo riders, be black, with a white background,
  - For sidecar riders, be black with a yellow background,
  - Have a maximum background area of 300mm<sup>2</sup>.
- ii) A number worn on a competitor's front must:
  - Measure at least 100mm x 80mm,
  - For solo riders, be black, with a white background,
  - For sidecar riders, be black with a yellow background,
  - Be worn on the left breast.
- e) Not have advertising on clothing within 25mm of number backgrounds.

14.9.1.1 The helmet colour of each competitor must be clearly visible to the Referee, the **Remove judge** and the Timekeeper throughout each event.

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14.9.1.2 A competitor who has a helmet of the specified colour for an event may wear the helmet in that event without a helmet cover.

RACE	RED	BLUE	WHITE	YELOW	YELLOW &BLACK	GREEN	ORANG	BLACK	BLACK & WHITE
Scratch 4 Riders	✓	✓	✓	✓	✓	X	X	X	X
Scratch 6 Riders	✓	✓	✓	✓	✓	✓	✓	X	X
Handicap	✓	✓	✓	✓	✓	✓	✓	✓	✓

NOTE: In table ~~14.9.1~~ ~~15.9.1~~ 14.9.1 ✓ means available, X means unavailable.

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**14..10 RACE EVENT PROTOCOLS**

14.10.0.1 Competitions may be individual events or team events.

**14..10..1 Flags and Signals**

14.10.1.1 The minimum dimension of flags must be 600mm x 600mm.

14.10.1.2 All control lights:

- a) Must be visible to all competitors,
- b) May only be operated by the Referee or the Referee's nominee.

14.10.1.3 In addition to, or in substitution for the flags and lights applicable to other disciplines the following signals apply: a) Start -

Green or National flag,

b) Race stoppage -  
Red flag,

c) Last lap -  
Yellow flag with  
black diagonal cross  
50mm wide,

d) Exclusion- Black flag,  
light or disc,  
indicating competitor's  
number or helmet colour.

**14..10..2 Change of Machines**

14.10.2.1 Competitors must use a machine presented at scrutineering. The machines that go through machine examination must match frame and engine numbers used by the rider in said event.

14.10.2.2 Subject to the supplementary regulations, a competitor may compete on a machine other than that described in the competitor's entry application but,

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a) Must inform a key official of any change, and

b) May not, in any heat or Final, use a machine on which another rider has qualified for the same heat or Final.

**14.10.3 Identification of Machines**

14.10.3.1 All machines must have the competitor's name displayed on the rear mudguard, seat or valance, in letters with a minimum height of 25mm.

14.10.3.2 All sidecars must have the competitor's race number on the side wing of the machine. The number must be a minimum 150mm high with a contrasting background.

**14..10..4 Measurement at Events**

14.10.4.1 A Referee of an event may direct the measurement of the capacity of the engine of any machine, to be carried out at the conclusion of the event. Until the measurement is completed the machine must remain under the control of the Relevant Controlling Body.

14.10.4.2 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.

**14..10..5 Measurements: All Australian and State Championship Events**

14.10.5.1 All machines must have provision for the placement of sealing wire.

14.10.5.2 An entrant may request that the entrant's machine be measured and sealed before the event. As soon as practicable after receiving the request the measurer for the event must measure and seal the machine. Any machine examined under this sub-rule may, on application by the entrant, at the discretion of

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the measurer, be exempted from further examination at the event.

b) Had an accident, which has damaged

14.10.5.3 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 before being returned to the competitor for that event,
- c) If no protest is received within that period, the seals may be removed.

14.10.5.4 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.

14.10.5.5 No prize monies may be paid until measurer's reports and seals are received or the expiration of 21 days whichever occurs first.

**14..10..6 Competitors**

14.10.6.1 A competitor who has entered for an event may practice on a machine on the track before the commencement of the event where the competitor has:

- a) Not ridden on the track previously,



the machine so as to require major repairs to the frame.

14.10.6.2 The Referee must require all:

- a) Newly licenced competitors, both Junior and Senior, moving to Senior 500cc competition, to be endorsed by a licenced MA coach; or
- b) Competitors whose abilities are not known to the Referee, to submit to such test as the Referee considers proves that the competitor is able to perform safely in competition.

#### 14..10..7 Radio Communication

14.10.7.1 Radio communications with riders is not allowed, and will be classed as outside assistance.

#### 14..10..8 Juniors

14.10.8.1 Where a Junior track is situated on the infield of a Senior track, a Junior Speedway event may be conducted in conjunction with a Senior event.

14.10.8.2 Demonstrations, Coaching and Practice:

- a) A Junior licence holder who has turned 15 years of age and in the opinion of an MA accredited coach is capable of handling a 500cc solo Speedway machine may give a demonstration during a break in the Senior program. Only one rider in this category is allowed on the track at a time,
- b) A Junior licence holder who has turned 12 years of age and 9 months will be allowed to be coached/practice on a 250cc solo Speedway machine. Only one rider in this category is allowed on the track at a time,
- c) A Junior licence holder who has turned 13 years of age and 9 months will be allowed

to be coached/practice on a 350cc solo Speedway machine. Only one rider in this category is allowed on the track at a time.

14.10.8.3 Junior Sidecar competitors on Junior Sidecar machines are allowed to compete on Senior tracks to a maximum length of 450 metres. Rider and passenger must be aged 14 to 16 years of age. Riders must be assessed by an accredited coach prior to competition.

#### 14..10..9 Late Arrival

14.10.9.1 The Referee may refuse permission to compete to a competitor who arrives at the venue for an event later than the arrival time prescribed in the supplementary regulations.

#### 14..10..10 Sidecar Passenger

14.10.10.1 In the event that the nominated sidecar passenger is unable to continue during the event, they may be replaced providing the new passenger signs the relevant indemnity forms and is authorised by the Clerk of Course and Referee prior to taking part.

#### 14..10..11 Starts

14.10.11.1 Competitors must be ready for the start when called upon to do so by the relevant official.

- a) The Referee will sound a 2 minute warning signal and illuminate the amber flashing light (if available) in the pit area,
- b) At the order of the Clerk of Course, competitors must leave the pit area together and proceed by the shortest practical route to the starting tapes and there stop under the control of the starting Marshal,
- c) Any competitor not ready to start at the expiration of 2

minutes after the signal may be excluded from the race,

- d) A competitor so excluded may be replaced by a reserve,
- e) Unless otherwise directed by the Referee, the time between the finish of one race and the start of the next will not exceed 5 minutes,
- f) In non-Championship events, if a rider is excluded for the 2 minute rule, or a tape touching offence, they may start the re-run from 15 metres back, and move to gate position 4. All other riders will move to the inside positions. In the event of 2 riders having been excluded, they will both move 15 metres back and start from positions 3 and 4,
- g) For riders not ready to start at the expiration of the 2 minutes (after warning signal has been sounded), riders have 30 seconds to move to the 15 metre line for the race start.
- h) For touching the tape, the Referee will decide the time allowed for the race re-start.

14.10.11.2 Competitors who are members of the same team or pair may exchange their starting positions.

14.10.11.3 Standing starts, controlled by the Referee, are to be used.

14.10.11.4 For other than handicap starts:

- a) Competitors must form up in the prescribed order behind the tapes,
- b) Once all competitors are correctly positioned and stationary, a green light or flag is shown,
- c) The starting Marshal then leaves the area of the tapes,
- d) After a pause of not less than 2 seconds, the Referee then

releases the gate to start the race,

- e) The first competitor whose machine touches one or more of the tapes during the pause before the gate is raised will be excluded and the event will be re-started; except in the case of non-Championship events where the Referee may allow the rider to start the re-run from gate 4, and 15 metres back.

14.10.11.5 For handicap starts in Speedway:

- a) Competitors must form up at their handicap marks on indication by red light or red flag,
- b) Once all competitors are correctly positioned and stationary, the red light is extinguished or flag withdrawn to indicate that a start is imminent,
- c) After a pause, the Referee then shows a green light or flag to start the race,
- d) The first competitor whose machine crosses the applicable starting line in the pause before the green light or flag is shown will be excluded and the event will be re-started; except in the case of non-Championship events where the Referee may allow the rider to start the re-run from gate 4, and 15 metres back,
- e) A machine is deemed to have crossed the starting line when its rear wheel axle passes over the line.

14.10.11.6 A race may be re-started if, in the opinion of the Referee:

- a) Any aspect of the start is unfair or incorrect,
  - b) The actions of any competitor have given that competitor an unfair advantage over another.
- 14.10.11.7 A competitor may not receive outside assistance after the showing of the green light or flag, or, in handicap events, the red light or flag.
- 14.10.11.8 A competitor excluded under the preceding Rule in:
- a) Individual contests; may be replaced by a reserve,
  - b) Teams contests; may be replaced by a track reserve,
  - c) Test and teams matches; may be replaced by a team reserve,
- And must leave the track without delay to return to the pit.

#### 14..10..12 Leaving the Course

- 14.10.12.1 A rider whose machine crosses the inner edge of the track with 2 wheels must be excluded unless, in the opinion of the Referee, the action was taken in the interest of safety of other riders or the rider was forced off course by another rider.
- 14.10.12.2 When tracks do not have an outer fence and are marked by other means, a competitor will be excluded if one wheel crosses the outer marker.
- 14.10.12.3 A rider who returns to the track and continues to race when not entitled to shall be excluded.

#### 14..10..13 Retirements

- 14.10.13.1 A competitor who, in the opinion of the Referee:
- a) Has not completed the race distance within 3 minutes of the start,
  - b) Has not started the last lap before the winner has crossed the finish line;

will be deemed to have retired from the race.

- 14.10.13.2 If the chequered flag has not been shown after the race distance has been completed by the leading competitor, it will be deemed to have been shown and that competitor will be declared the winner.

#### 14..10..14 Stopping Events

- 14.10.14.1 Where an incident causes an event to be stopped, the Referee may declare the event complete if at least 75% of the event distance or time, whichever is the less, has been run.
- 14.10.14.2 The results so declared will be based on the placings at the finish line of the last full lap completed before the incident but will exclude those competitors who:
- a) Caused the incident, or
  - b) Having been involved in the incident, could not continue in the event.

#### 14..10..15 Reserves

- 14.10.15.1 The Referee may direct a reserve to replace a competitor who has failed to start in an event.
- 14.10.15.2 Reserves will be used in rotation.
- 14.10.15.3 A reserve is not entitled to any points towards any subsequent race but must be paid any prize monies to which the reserve would have been entitled if the reserve had been an original competitor.
- 14.10.15.4 A reserve who replaces an excluded competitor in pairs or team races may use:
- a) The reserve's original start position,

- b) The competitor's original start position.

#### 14..10..16 Re-Runs

14.10.16.1 When a chequered flag is displayed before the race distance has been completed by the leading competitor, the Referee must order a re-run.

14.10.16.2 In a re-run:

- a) Competitors must start from their original starting positions, and  
b) Reserves must occupy the position of the replaced competitors.

14.10.16.3 Any competitor who has failed to start in or been excluded from any race may not compete in the re-run.

14.10.16.4 Any competitor who has retired from any race may not compete in the re-run unless, in the opinion of the Referee, the competitor retired in the interests of safety or after being fouled.

#### 14..10..17 Scoring

14.10.17.1 In every heat, unless otherwise prescribed by the supplementary regulations: a) The winner receives 3 points,

b) The 2nd receives 2 points,

c) The 3rd receives one point,

d) The 4th receives zero points,

e) Zero for last place is better than M,R,F,T,E and N where:

O = For last place,

M = Excluded for 2 minute rule,

R = Retired from the race,

F = Fall but not excluded,

T = Excluded for false

start, E = Excluded, N

= No start.

14.10.17.2 In individual events, ties will be resolved by a run-off between the tied competitors.

14.10.17.3 Alternatively, in individual events ties may be resolved as follows:

a) Precedence will be given to the riders (tied on points) having the most 1st, 2nd, 3rd, 4th placings (a 'O' for last place is better than being disqualified);

b) If the tie still persists and involves only 2 riders, precedence will be given to the better placed rider in the heat or heats where the 2 riders met;

c) If the tie still persists and involves more than 2 riders, it shall be checked whether there is a possibility to determine a proper precedence (e.g. 3 riders tied on points: A, B, C: rider A has beaten rider B, rider A has beaten rider C, rider B has beaten rider C. Precedence will be best position for rider A, then rider B and rider C respectively);

d) If solutions a), b), and c) cannot resolve the tie, then a run-off will take place.

14.10.17.4 In team events, ties will be resolved by a run-off with one competitor from each team.

14.10.17.5 All competitors taking part in a run-off in the event of tied scores must be paid prize money for the run-off.

#### 14..10..18 Dead Heats

14.10.18.1 In the event of a dead heat between 2 or more competitors, the combined points will be shared between the tied competitors.

#### 14..10..19 Pit Control

14.10.19.1 No persons may be or remain in the pits during an event other than: a) Competitors,

b) Competitors' mechanics,

c) Police, fire or medical staff,

- d) Officials,
- e) Others authorised by the Clerk of Course.

14.10.19.2 The pits will be under the control of the Clerk of Course who will be assisted by a Pit Marshal:

- a) The Pit Marshal may report to the Clerk of Course any person who breaches any rule or disobeys any instruction given by the Clerk of Course or Pit Marshal,
- b) The Pit Marshal may report to the Clerk of Course any person as to that person's mode of dress or behaviour,
- c) The Clerk of Course may eject any person who, in their opinion is behaving in an unsafe or unsatisfactory manner.

14.10.19.3 Mechanics must not enter the racing area unless authorised to do so by the Clerk of Course for the purposes of:

- a) Push starting the competitor's machine,
- b) Attending to the accident damaged machine of the relevant competitor.

14.10.19.4 A mechanic may not attend any riders' briefing without the permission of the Referee.

#### 14..10..20 Payments

14.10.20.1 Prize monies and travelling expenses must be prescribed in the supplementary regulations.

14.10.20.3 A competitor will be deemed to have qualified for starting money if, after receiving the starting signal, the competitor moves forward under power from the starting position.

14.10.20.4 In races other than handicaps, a competitor who defeats a competitor of a higher grade is entitled to prize monies at the level of the defeated rider.

#### 14..10..21 Referee

14.10.21.1 In Speedway, the functions and authority of Steward and Clerk of Course, as described in Chapter 2 will be exercised.

14.10.21.2 The Clerk of Course shall be responsible to the Referee:

- a) For the conduct of the event and its administration in accordance with these regulations and the official program,
- b) To put into effect all instructions given by the Referee received verbally or in writing, directly or by any other means,
- c) Ensure that all the necessary officials, riders and spectators are informed without delay of the Referee's decision,
- d) To prevent any person from communicating directly with the Referee, including communicating by telephone, during the event without the Referee's permission,
- e) Must ensure that protests are in order and accompanied by the appropriate fees before passing them to the Referee,
- f) The Clerk of Course may fine or reprimand a competitor, mechanic or official in the pit area. The Clerk of Course must notify the Referee of any penalties handed out during the event.

#### 14..11 RACE MEETING PROTOCOLS:

## AUSTRALIAN SPEEDWAY CHAMPIONSHIP

### 14..11..1 Applications to Conduct

~~14.11.1.1 Applications for the conduct of Australian Championships must be received by MA by February 1st in the preceding year.~~

~~14.11.1.2 The permit fees for Australian Speedway Championship events be set and released by November 30th of the previous year.~~

### 14..11..2 Dates for Conduct

~~14.11.2.1 Unless otherwise determined by the Speedway Commission (hereafter referred to as the 'Commission'), the Australian 500cc Solo Championships must be run in January or February of each year and the Australian Sidecar Championships to be run on a date at the discretion of Promoter and Commission.~~

### 14..11..3 Selection Committee

14.11.3.1 The selection Committee **in consultation with MA**, will be the Commission which must:

- a) Forward the competitor and reserve selections to MA,
- b) Allow MA **to will** notify the competitors and the Promoter of the selections.

### 14.11.4 Selection and Qualification

14.11.4.1 To qualify for selection for an Australian Championship event, a competitor must apply in writing no less than 30 days prior to the event, and:

- a) Be the current Australian Champion, a Top 4 rider in the previous Australian Championships, or a GP rider within the last two years, or
- b) Be the best performing competitor in the State Championship of the State which issued the competitors' licence, held a minimum of 30

days prior to the Australian Championship.

- c) Competitors who are not Australian residents may nominate to compete in the Australian Speedway Championship, and will be considered by the Speedway Commission for inclusion.

14.11.4.2 Any State unable to conduct a Championship of 12 entries or more prior to the close of entries in the supplementary regulations for an Australian Championship may nominate one competitor for the Speedway

Commission's approval to represent that State. The nominated competitor may be the competitor selected in the Australian Championship. If the State Championship is held between the close of entries in the supplementary regulations and the relevant Australian Championship the State title holder may not be eligible for selection.

14.11.4.3 The team for a State will be selected by that State's Speedway sub-Committee.

14.11.4.4 The selected competitors must notify the Promoter of their acceptance of the conditions and the anticipated time of arrival at the track concerned.

### 14.11.5 Alternate Qualification

14.11.5.1 A Promoter may run qualifying and, if so:

- a) The Promoter must obtain the permission of MA,
  - b) The Australian Champion automatically qualifies for the

Australian Championship event,

- c) Current State Champions are automatically seeded into

qualifying event in the event they are overlooked for a direct transfer into the Championship,

- d) After nominations have closed the Promoter and the Commission will decide on a race format (to be put to the Board for its consideration),
- e) If more competitors have nominated for the event than positions are available, the Commission may select to compete those competitors it considers appropriate based on merit.

#### **14..11..6 Practice**

14.11.6.1 Practice must be conducted for all Australian Championships.

14.11.6.2 Practice times and format must be stipulated in the supplementary regulations for each Championship.

#### **14..11..7 Examination Before an Event**

14.11.7.1 Before an event, the Promoter must set a time and place, giving

reasonable notice to every competitor, for:

- a) Identification and examination of licences,
- b) Examination of motorcycles,
- c) Sound testing,
- d) Checking of helmets and protective clothing, and
- e) Such other examinations as are necessary.

14.11.7.2 The Referee may forbid:

- a) Any competitor who does not comply with the Rules mentioned above, or
- b) Any competitor who can be a danger to other participants or to spectators, from participating in any competition at the event.

#### **14..11..8 Carburettor Examination**

14.11.8.1 All solo machine carburettors may be checked and measured before the event.

14.11.9.2. The number of laps to be measured.

**14..11.. Race Format**

14.11.9.1. Race format must be stipulated in Supplementary Regulations.

a) There will be 20 heats and an A and B final

b) There will be 20 heats and 1 Points for semi's 3, 2, 1, 0. Points for points count to total series points.

14.11.9.2. The 3 competitors who accumulate the most points during the course of the heats will compete in

14.11.9.3. There will be

a) a B final made finish 4th to 7th. The final will go

b) 2 semi finals made riders from the 20 heats. After the 20 heats the 1st, 3rd, 5th and 7th point scorers move into semi final 2nd, 4th and 8th point scorers move into semi final 1. The semi final form the 4 competitors for the final. Points will in both semi finals with cumulative point scorer after the heats and semi's receiving pick in

14.11.9.4. Starting positions will be offered to the riders in descending order of points accumulated in the heats. In the case of riders for the Final being tied on points, gate choice will be determined by count back, where 0 is better than M,R,F,T,E

and N where:

- M = Excluded for 2 minute rule,
- R = Retired from the race,
- F = Fall but not excluded,
- T = Excluded for false start,
- E = Excluded,
- N = No start.

14.11.9.5. In case of riders being tied on points for the A & B Final, all Final places will be determined by count back.

14.11.9.6. There must be 16 competitors with the heat format according to the following table:





HEAT NUMBER	HELMET COLOUR			
	Red (Inside)	Blue	White	Yellow/Black (Outside)
<b>Competitors Starting Numbers</b>				
1	1	2	3	4
2	5	7	6	8
3	10	11	9	12
4	15	14	16	13
5	13	1	5	9
6	14	10	2	6
7	11	15	7	3
8	4	8	12	16
9	6	16	1	11
10	12	5	15	2
11	8	9	3	14
12	13	4	10	7
<b>Interval</b>				
13	7	12	14	1
14	2	13	8	11
15	16	3	10	5
16	9	6	4	15
17	1	8	15	10
18	9	2	7	16
19	3	12	13	6
20	5	14	11	4

**14..11..10 Twelve Race Format**

14.11.10.1 As an alternative to the preceding GCR there may be a 12 race format of 3 laps, with 18 competitors plus reserves, according to the following table:

HEAT NUMBER	HELMET COLOUR					
	Red (Inside)	Blue	White	Yellow/Black	Green	White/Black (Outside)

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Competitors Starting Numbers						
1	1	2	3	4	5	6
2	7	8	9	10	11	12
3	13	14	15	16	17	18
4	3	17	1	15	8	10
5	16	12	5	2	9	13
6	4	6	11	18	14	7
7	18	15	7	12	2	1
8	5	10	17	11	16	4
9	14	9	13	6	3	8

14.11.10.2 The Twelve Race format must be used where the track is over 450 metres in length and is licenced for 6 competitors.

14.11.10.3 In races 10 and 11, the highest 12 point scorers in heats 1 to 9 must participate as follows:

a) Race10: Competitors finishing in

1st, 4th, 5th, 8th, 9th & 12th places,

b) Race11:

Competitors finishing in

2nd, 3rd, 6th, 7th, 10th & 11th places,

c) Final: The highest 6 point scorers.

14.11.10.4 Any vacancies for races 10 and 11 must be filled from those competitors who were placed 13th or lower after heats 1 to 9 in descending order of point scores.

14.11.10.5 Any vacancies for the Final must be filled from those competitors who were placed 7th or lower after races 10 and 11 in descending order of point scores.

14.11.10.6 Starting positions for races 10 and 11 must be balloted in the presence of the Referee or Clerk of Course.

14.11.10.7 Starting positions for the Final will be offered to the 6 competitors in descending order of points accumulated in the heats. In the case of competitors for the Final being tied on points, gate choice will be determined by countback.

14.11.10.8 In the case of competitors being tied on points at the conclusion of heats:

a) Finalists will be determined by runoff,

b) Other places will be determined by countback.

14.11.10.9 The finishing order of each competitor in the Final will determine Championship placings. After

## Thinking about Rule changes?

If you believe a rule should be changed or a new rule added, you can have your say by working through your Club to propose amendments and/or additions.

Proposals for changes can be sent to your SCB or direct to MA. The details are at the front of this book.

The most successful applications are when the proposer includes the new wording for an existing rule, where a new rule should sit in the structure of this book, and **must** include a rationale on why the rule should be changed or added.

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completion of the series if any of the 4 point scorers are tied the respective positions shall be decided by a run-off.

### 14..11..11 Thirteen Rider Format

HEAT NUMBER	HELMET COLOUR			
	R	B	W	Y
1	1	2	4	10
2	2	3	5	11
3	3	4	6	12
4	4	5	7	13
5	5	6	8	1
6	6	7	9	2
7	7	8	10	3
8	8	9	11	4
9	9	10	12	5

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10	0	11	13	6
11	11	12	1	7
12	12	13	2	8
13	13	1	3	9

the Promoter and the selection committee and the amount will be included in the supplementary regulations.

14.11.12.2 Prize money will be included in the supplementary regulations.

**14..11..12 Prize Money**

14.11.12.1 Prize money for reserve riders will be determined by

**14..12 RACE MEETING PROTOCOLS: AUSTRALIAN TEAM CHAMPIONSHIP****14..12..1 Qualifying**

14.12.1.1 Teams Championships will consist of qualifying rounds run in each State and one Final.

14.12.1.2 7 teams will take part in each meeting.

14.12.1.3 One team from each State will qualify. Should a State not have qualified competitors, or decide not to nominate a team, the extra team required will be selected by the Commission based on performance during any qualifying rounds.

14.12.1.4 The Commission must send the names of the 7 qualifying teams to the Promoter of the event as well as the Relevant Controlling Body.

14.12.1.5 For Championship qualifying rounds the State Controlling Body holding qualifying must, within 48 hours after the event, send the results to MA and to the State Controlling Body organising the Final. **14..12..2 Twenty-One Heat Format: Teams**

HEAT NUMBER	HELMET COLOURS			
	Red (Inside)	White	Blue	Yellow/Black (Outside)
<b>Competitors Starting Numbers</b>				
1	1	3	2	4
2	5	7	6	8
3	9	11	10	12
4	13	1	14	2
5	3	5	4	6
6	7	9	8	10
7	13	11	14	12

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8	1	5	2	6
9	7	3	8	4
10	9	13	10	14
11	11	1	12	2

## Interval

12	3	9	4	10
13	5	11	6	12
14	13	7	14	8
15	1	9	2	10
16	11	3	12	4
17	5	13	6	14
18	7	1	8	2
19	3	13	4	14
20	9	5	10	6
21	11	7	12	8

14.12.2.1 This format allows members of the same team to change positions at the starting gate.

**14..12..3 Heat Format: Teams**

14.12.3.1 There must be 14 heats with 3 teams per heat according to the following table:

HEAT	HELMET COLOURS					
	Red	Blue	White	Yellow	Green	Black & White
	Competitors Starting Numbers					
1	1	10	7	2	9	8
2	3	6	1	4	5	2
3	9	14	3	10	13	4
4	5	12	9	6	11	10
5	13	8	5	14	7	6
6	7	4	11	8	3	12
7	11	2	13	12	1	14

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Interval						
8	10	1	2	7	8	9
9	6	3	4	1	2	5
10	14	9	10	3	4	13
11	12	5	6	9	10	11
12	8	13	14	5	6	7
13	4	7	8	11	12	3
14	2	11	12	13	14	1

14.12.3.2 The above format must be used where the track is over 400 metres in length and is licenced for more than 4 competitors.

14.12.3.3 Heats must be as follows:

- There must be 7 teams with each team having 6 heats and each team meeting all other teams twice,
- Between each heat there must be either another event or a 4 minute break,
- Competitors cannot change gate position in this format.

#### 14..12..4 Ties

14.12.4.1 A tie for 1st, 2nd or 3rd places will be resolved by one heat with one rider from each tied team taking part.

#### 14..12..5 Finals

14.12.5.1 If one or both competitors of a team who qualify for the Final cannot participate they may be replaced by competitors nominated by the selection committee.

14.12.5.2 If a qualified team is not present, its place in the Final will be taken by the team which has scored the next highest number of points in the previous event.

14.12.5.3 Inability to take part in the Final must be notified to the RelevantControlling Body as soon as possible.

14.12.5.4 When competitors of the same team finish 1st, and 2nd or 2nd and 3rd in a heat, the competitor finishing 2nd or 3rd respectively will be awarded a bonus point, entitling that competitor to remuneration, but the point will not be counted towards the heat or in the Finals.

14..13 RACE MEETING

PROTOCOLS: TES

T

ATCHES

14.13.1 Definition

between 2 or more countries appointed by their respective

14.13.1.1

FMNs.

14..13..2 Format

14.13.2.1 There must be 18 heats in a

format acc

ordi

g to the following table:

HEAT NUMBER	HOME TEAM				
	Red	B	ue	White	Yellow & Black
1	1		2	1	2
2	3		4	3	4
3	5		6	5	6
4	3		4	1	2
5	5		6	3	4
6	1		2	5	6
7	5		6	1	2
8	1		2	3	4
9	3		4	5	6
Interval					
10	1		2	1	2
11	3		4	3	4
12	5		6	5	6
13	3		4	1	2
14	5		6	3	4
15	1		2	5	6
16	5		6	1	2
17	1		2	3	4
18	3		4	5	6

Competitor Numbers 7 & 8 or Number	per 7 of each team are the reserves..
<p><b>14..13..3 Bonus Points</b></p> <p>14.13.3.1 Bonus points are allotted for prize money only with an additional bonus point for a competitor who finishes 2nd or 3 immediately behind their team mate.</p> <p><b>14..13..4 Starting Positions</b></p> <p>14.13.4.1 The captains of each team will toss for starting positions in the first heat, the choice being positions 1 and 3 or positions 2 and 4, counting from the inside of the track.</p> <p>14.13.4.2 The team that selects positions 1 and 3 in the first heat must take positions 2 and 4 in the second heat, and so on alternately throughout the event</p>	<p>4.13.4.3 The relative positions of the 2 competitors of each team in each heat may be changed.</p> <p><b>4..13..5 Reserves</b></p> <p>4.13.5.1 A competitor who has been unable to commence or complete an event due to an accident, and who has not been excluded, may be replaced by a reserve. The event will be deemed to be a new event with the reserve as a competitor.</p> <p>4.13.5.2 A reserve may not ride in more than 6 events.</p> <p>4.13.5.3 Only one reserve may participate in each event.</p>



**14..14 WORLD CHAMPIONSHIP SELECTION****14..14..1 Open Solo**

14.14.1.1 The placings from the Australian Speedway Championships will dictate the following:

- a) The highest placed Australian rider who has not already achieved World Championship qualification for the following year will be qualifier 1,
- b) The next highest will be qualifier 2,
- c) The riders who will occupy the 3rd and any additional positions (where applicable) will be chosen by the MA Speedway Commission in conjunction with MA,
- d) Should a rider who qualifies choose to forfeit his or her right to participate in the subsequent rounds, again the Commission in conjunction with MA, will choose the replacement rider/s.

**14..14..2 Under 21 Solo and Sidecar**

14.14.2.1 The placings from the Australian Speedway Championship will dictate the following:

- a) The highest placed Australian rider will be qualifier 1,
- b) The next highest will be qualifier 2,
- c) The riders who will occupy the 3rd and any additional positions (where applicable) will be chosen by the MA Speedway Commission in conjunction with MA,
- d) Should a rider who qualifies choose to forfeit his or her right to participate in the

subsequent rounds the Commission in conjunction with MA, will choose the replacement rider/s.

**14..14..3 World Cup**

14.14.3.1 To be eligible for selection in the World Cup Teams, both Senior & Junior, riders must participate in the Australian Senior Solo or the Under 21 Championships for that year. In addition Team selection will be based on current form, previous achievements, suitability to the venue and willingness to represent Australia.

Note: Australian GP riders are exempt from this requirement.

**14..14..4 FIM Gold Trophy Selection: Under 16 Solo..**

14.14.4.1 The placings from the Australian Championship will dictate the following:

- a) The highest placed Australian rider will be qualifier 1,
- b) The next highest will be qualifier 2,
- c) The riders who will occupy the 3rd and any additional positions (where applicable) will be chosen by the MA Speedway Commission in conjunction with MA,
- d) Should a rider who qualifies choose to forfeit his or her right to participate in the subsequent event the Commission in conjunction with MA, will choose the replacement rider/s.

**14..14..5 Inability to Compete (Applies to Open, Under 21 and Gold Trophy Events)**

14.14.5.1 Riders who are unable to compete in the National Championship due to exceptional circumstances, but have previously shown strong support for Australian

Speedway may be considered for selection. This avenue is only open where the rider in question has informed MA in writing prior to the event, stating the reasons for non-participation.

#### ~~14..14..6 Australian Speedway Manager~~

~~14.14.6.1 The Australian Speedway Team Manager is to be selected by the MA Speedway Commission in consultation with the MA Board. The appointment will be reviewed annually and advertised in Australia and the United Kingdom.~~

### SECTION 14D: TECHNICAL REGULATIONS

#### 14..15 SOUND EMISSIONS

14.15.0.1 Sound testing must be carried out as per Appendix C: Sound Emissions & Fuel.

#### 14..16 FUEL

14.16.0.1 Fuel for all machines must be as per Appendix C: Sound Emissions & Fuel.

#### 14..17 ENGINES

##### 14..17..1 Reciprocating Engines

14.17.1.1 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

##### 14..17..2 Engine Capacity Tolerances

14.17.2.1 Unless otherwise specified in the following table, the actual engine capacity of a machine competing in a capacity class may not exceed the prescribed capacity for that class by more than 2%:

#### CLASS

#### PERMITTED EXCESS

Sidecar - Senior 1045ccNil

Sidecar - Junior 250cc+1mm of Bore Diameter

Solo - Senior 500c Nil

Solo - Junior 50cc Nil

Solo - Junior & Senior  
Nil

250cc/350cc

Solo - Junior 125cc +1mm of Bore

Diameter Record Attempts Nil

#### 14..17.3 250/350/500cc Solo Engines

14.17.3.1 Engine capacity must not exceed 250cc, 350cc, or 500cc.

14.17.3.2 Engines must be:

- Single cylinder,
- 4-stroke,
- Four valves maximum,
- Fitted with one carburettor of 34mm  
+/- 0.1mm diameter, and
- One spark plug.

Figure 14.17.3.4 Carburettor dimensions

14.17.3.3 Two-valve engines may use a carburettor of 36mm +/- 0.1mm diameter.

14.17.3.4 The carburettor measurements must:

- Remain constant over a distance of no less than 25mm on the engine side and 5mm on the air intake side,

- b) Be taken from the edges of the throttle valve or throttle butterfly.

14.17.3.5 The fuel output section of the carburettor must be of circular shape.

14.17.3.6 Direct injection must comply with the above carburettor sizes.

14.17.3.7 Supercharging and turbocharging are not permitted.

#### 14..17..4 Sidecar Engines

14.17.4.1 An event may be restricted to machines of a capacity of no more than 500cc, which will be known as a 500cc class event.

14.17.4.2 For a machine competing in a 500cc class event, the engine must comply as follows:

- a) Where electronic fuel injection is installed it must be of a standard production type,
- b) The engine may not be turbocharged or supercharged.

14.17.4.3 For a machine competing in any event other than a 500cc class event, the engine must comply as follows:

- a) The engine capacity must not exceed 1045cc,
- b) Supercharged and turbocharged engines must not exceed 500cc,
- c) On liquid cooled engines an overflow pipe must be used to direct any overflow of coolant away from the rider and passenger,
- d) Titanium may be used if OEM.

#### 14..18 FRAMES AND PARTS

##### 14..18..1 General

14.18.1.1 The use of titanium in the construction of the frame, the front forks, the handlebars, the swinging arm, the swinging arm spindles and the wheel spindles, is forbidden unless OEM. The use of light alloys for wheel spindles is also forbidden unless OEM. The use of titanium alloy nuts and bolts is allowed.

14.18.1.2 Handlebars must:

- a) Be fitted to the unsprung part of the front suspension,
- b) Be securely plugged so as to present a flush or rounded end,
- c) Have a width of not more than 900mm nor less than 700mm, and
- d) Have handlebar grips attached to the ends with a maximum length of 150mm.

14.18.1.3 Clutch levers must:

- a) Have ball ends with a minimum diameter of 19mm,

- b) Measure no more than 200mm from the fulcrum to the extremity of the ball.
- 14.18.1.4 Throttle controls and mechanical carburettor linkages must:
  - a) Be self-closing,
  - b) Be enclosed so as to prevent jamming.
- 14.18.1.5 There must be a kill switch which must:
  - a) Cut out the ignition,
  - b) Operate on the primary circuit,
  - c) Be fitted with a lanyard which must:
    - i) Have a total extended length not exceeding 500mm,
    - ii) Be attached around the rider's right wrist when the machine is in motion,
    - iii) Not be secured to the handlebar unless by a readily torn material.
- 14.18.1.6 Stops or other devices must be fitted to ensure a minimum clearance of 30mm between the handlebars and any other part of the machine when on full lock.
- 14.18.1.7 Steering must be:
  - a) Direct,

- b) Through the front wheel,
- c) By a classic telescopic fork, leading link, earles, or girder type.
- 14.18.1.8 Light alloys may not be used for wheel axles.
- 14.18.1.9 front wheel must be fitted with a knockout spindle or an approved clamp to fasten on the fork tips.
- 14.18.1.1 Brakes may
- 14.18.1.1 For any cast or welded wheel, the gaps between the spokes must be
- 14.18.1. Machines need not carry number plates.
- 14.18.1.1 FIM homologated Dirt fitted to all solo the exceptions of 125cc Junior machines, and 500cc upright engined machines when used in Classic Speedway events.

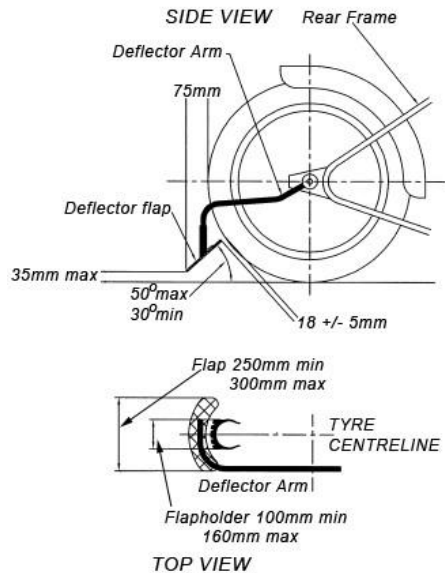


Figure 14.18.1.13 Dirt

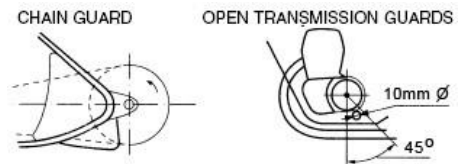


Figure 14.18.1.14 Chain Guard

14.18.1.14 Primary chain guard protection must be provided by:

- a) Fully enclosing the chain with a steel guard, or
- b) If a plastic, fibreglass or part open chain guard is used, a steel bolt of not less than 10mm minimum diameter, placed outside the bottom rear quadrant of the clutch sprocket. This bolt, if damaged, must be replaced.

14.18.1.15 Mechanical carburettor linkages must be:

- a) Enclosed by a suitable material, or
- b) Fully enclosed by a box.

#### 14..18..2 Streamlining

14.18.2.1 All streamlining fitted to motorcycles or sidecars must be free of any sharp edges on exposed extremities.

14.18.2.2 For fibreglass construction, edges must be rounded to their own thickness but need not be wired.

#### 14..18..3 Fuel Tanks

14.18.3.1 Fuel tanks may be constructed from any material that has been approved by the Australian Standards Association as a petrol or fuel container material.

### SECTION 14E: TECHNICAL REGULATIONS: SOLO CLASSES

#### 14..19 ALL CLASSES

##### 14..19..1 General

14.19.1.1 Rear chain guards must:

- a) Be fitted to the back end of

the rear assembly of machines,

- b) Provide protection where the rear chain enters onto the rear wheel sprocket,
- c) Ensure rear wheel adjusters are totally enclosed with a rounded or closed end so that no thread is exposed.

14.19.1.2 The minimum weight, without fuel, is 77kg

14.19.1.3 Rear suspension is prohibited.

14.19.1.4 A single gear only is permitted.

#### 14..19..2 Exhaust Systems

14.19.2.1 Exhaust systems must not extend beyond the outer circumference of the rear wheel rim and tyre.

14.19.2.2 The gap between the silencers and the tyre must not exceed 60mm.

14.19.2.3 Exhaust gases must be discharged from the system horizontally and parallel to the centre line of the machine.

14.19.2.4 Only FIM homologated exhausts with heat shield fitted to be used.

14.19.2.5 The exhaust pipe must be fixed to the cylinder head and frame with a minimum of 3 clips, one of which must be attached to the cylinder head.

14.19.2.6 The silencer must be attached to the frame with at least one clip. A second moveable coupling must be fitted from the first third of the silencer to the frame with steel cable of at least 3mm or strong steel spring.

- 14.19.2.7 The diameter of the exhaust pipe must not exceed 50mm or an equivalent area and must remain constant up to the silencer.
- 14.19.2.8 The outlet area of the silencer must remain constant over a length of 50mm, must not exceed 45mm, or an equivalent area, and must not be perforated.
- 14.19.2.9 The outside shell of the silencer must form one unit. The end of the pipe must be cut at right angles.
- 14.19.2.10 Where turbo or similar types of approved silencers are fitted:
- a) The silencer must be mounted in a position to discharge the exhaust fumes at a minimum deflection of 15° from the centre line of the machine and a maximum of 30° to the ground,

- b) The silencer must not be altered in shape or modified in any way, other than a welded transition section to allow clamping to the exhaust pipe,
- c) The maximum internal outlet diameter must be 47mm and must remain OEM.

### 14..19..3 Footrests

#### 14.19.3.1 Footrests:

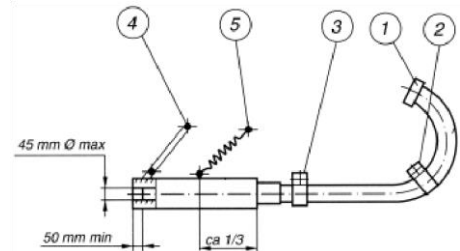
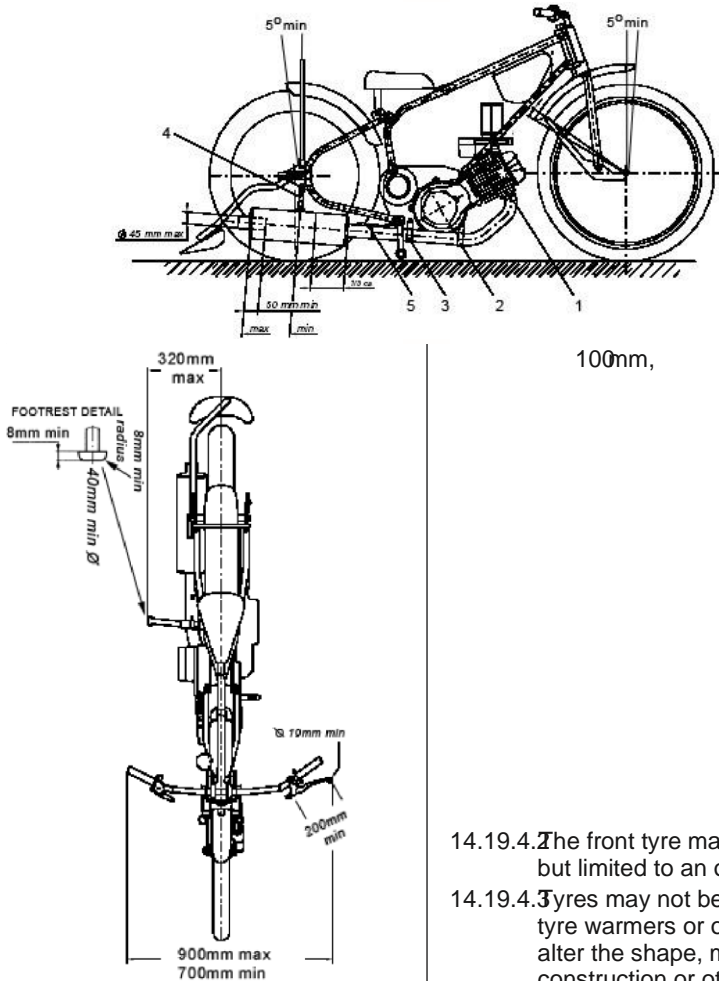


Figure 14.19.2 250/350/500cc Solo Exhaust

- c) The tyre must be mounted and inflated to 14psi at Scrutineering,
- d) The tread depth must not exceed 8mm measured at right angles to the face of the tread,
- e) All blocks in the same circumference must be of the same depth,

Figure 14.19

Solo Speedway machine: Side and top views



- a) Must be on the right hand side of the machine and must not exceed 320mm in length measured from the centre line of the motorcycle,
- b) Must have metal protection at the end of at least 8mm radius,
- c) May be folding and, if so, must be fitted with a device which automatically returns them to the normal position.

**14..19.Tyres**

14.19.4. Rear tyre requirements are as follows

- a) modification of tyres is not permitted,
- b) The overall width must not exceed

- 14.19.4.2 The front tyre may be of any size or type but limited to an overall width of 80mm.
- 14.19.4.3 Tyres may not be treated by chemicals, tyre warmers or other means which tend to alter the shape, minimum shore hardness, construction or other characteristics.

**14..19.Mudguards**

14.19.5.1 Must be fitted with a front mudguard that extend at of a vertical line running through the centre of the front wheel axle and at least 5° under the top edge protecting the front of the engine.

14.19.5.2 The rear mudguard must extend at least 5° behind a vertical line the centre of the rear axle. Distance between rear mudguard and top of rear tyre must be no more than 35mm plus 5mm the space between the blades, it should be made in one piece, of strong material which should not break under

2020 MANUAL OF MOTORCYCLE SPORT any higher than 35mm above the rear mudguard.

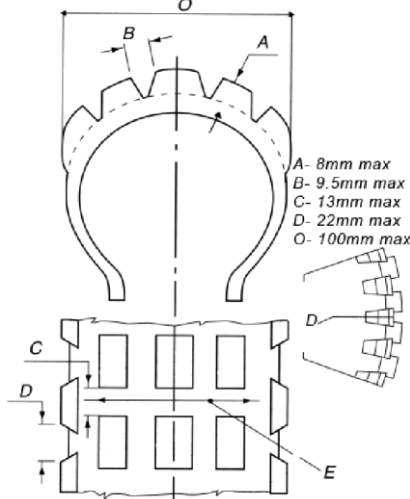


Figure 14.19.4 Solo Tyre

**250CC SOLO INTERMEDIATE**

14.20.0. This class is for State level competition only.

14.20.0.2 Promoters intending to conduct competition for 250cc Intermediate class must:

- a) Obtain approval from the Speedway Commission, in addition to obtaining approval from the State Controlling Body,
- b) Provide the Commission with a report on the merits of the class. The report should include statements from riders and officials and engineering personnel.

**14..20.Engine**

14.20.1.1 4 stroke single cylinder engine up to 250cc.

14.20.1.2 If the engine is gearshift lever must be removed and the machine must remain in one gear during racing.

**250CC/350CC CLASS**

**14..21.Eligibility**

14.21.1. Junior and Senior riders must be assessed by an MA accredited coach prior to competition.

must not exceed 9.5mm across the tyre or 13mm in a circumferential direction,

- g) The space between the blocks must not exceed 22mm. The space across C in the relevant diagram must not extend completely across the tyre measured at right angles to the wall of the tyre, unless broken by a block.

14.21.1.2 Riders competing on these machines must be:

- a) A minimum age of:
  - i) 13 to under 16 years for 250cc, ii) 14 to under 16 years for 350cc.

14.21.1.3 Junior riders can practice or demonstrate on a 250cc machine from the age of 12 years and 9 months.

14.21.1.4 Junior riders can practice on a 350cc machine from the age of 13 years and 9 months.

14.21.1.5 Senior riders can ride 250cc or 350cc machines.

14.21.1.6 No Juniors are permitted on track with Seniors.

14.21.1.7 350cc machines are not eligible to enter the Australian Speedway Championship.

14.21.1.8 For Junior 250cc machines only, refer to the relevant MA Track specifications for track length.

**14..22 JUNIOR 50CC CLASS**

**14..20 14..22..1 Engine**

14.22.1.1 The use of Titanium in Junior Speedway engines is prohibited.

14.22.1.2 Eligible machines are any production solo motorcycles utilising 50cc 2 or 4-stroke engines. All machines must be OEM.

- a) Engine capacity must not exceed



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50cc,

- b) The gearbox must not have more than one gear for 2-stroke machines and three gears for 4-stroke machines,
- c) The clutch must not be of other than OEM and other than of a centrifugal type,
- d) Rear wheel must not be other than  
10" (254mm),
- e) Front wheel must not be other than  
10" (254mm) or 12" (304mm),
- f) A lanyard kill switch must be fitted,
- g) Working brakes must be retained.

**14.22.2 Permitted Modifications**

14.22.2.1 Parts equivalent to OEM may be fitted.

**14..21**

14.22.2.2 The following may be altered.

- a) Seat,
  - b) Colour,
  - c) Mudguards,
  - d) Handlebars,
  - e) Grips,
  - f) Levers,
  - g) Cables,
  - h) Chains,
  - i) External gearing,
  - j) Tyre brand and pattern,
  - k) Foot pegs and foot peg position.
- 14.22.2.3 Rear shock absorber may be removed and replaced with a solid replacement.
- 14.22.2.4 Throttle limiting devices may be removed.
- 14.22.2.5 Restrictor washers in the header pipe abutting cylinder barrel may be removed.
- 14..23 JUNIOR 125CC CLASS**
- 14..23..1 Engine**
- 14.23.1.1 The use of Titanium in Junior Speedway engines is prohibited.
- 14.23.1.2 If the engine is fitted with a gearbox, the gearshift lever must be removed and the machine must remain in one gear while racing.
- 14.23.1.3 The engine capacity must not exceed 125cc with a +1mm tolerance of the bore diameter.
- 14.23.1.4 A single cylinder 4-stroke engine, fitted with one carburettor, of a mass produced type must be used.
- 14.23.1.5 The cylinder head must be as follows:
- a) Two-, three- or four-valve cylinder heads can be fitted, but three- and four-valve heads must retain manufacturers' specifications,
  - b) The action of the valves must be controlled by valve springs,
  - c) The cylinder head may be ported and, if damaged in use, bearing journals may be bored and bearings replaced with either roller or bronze bearings,
  - d) For two-valve heads, maximum valve size must be:
    - i) Exhaust - 25mm,
    - and ii) Inlet - 30mm.

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- 14.23.1.6 Carburettors no bigger than 24mm can be fitted.
- 14.23.1.7 Inlet manifold must be round for entire length.
- 14.23.1.8 Compression ratio must not exceed 9.7:1
- 14.23.1.9 Any type of ignition system may be used.
- 14.23.1.10 Later model parts, or parts of different manufacture, may be installed.
- 14.23.1.11 The "Shupa" brand Junior Speedway machine is approved for competition in the Junior 125cc Solo class when the machine is fitted with the two or threevalve head.

**14..23..2 Frames and Parts**

- 14.23.2.1 Wheelbase must not exceed 1375mm.
- 14.23.2.2 Rear rim diameter must not exceed 17" (432mm).
- 14.23.2.3 Rear tyres must:
- Have Trial or Speedway pattern tread tyres,
  - Not exceed 90mm x 432mm (3.5" x 17"),
  - Not be modified.
- 14.23.2.4 Front rim diameter must not exceed 482mm (19").
- 14.23.2.5 Front tyres must:
- Have Trial pattern or Speedway tread,
  - Have a diameter not exceeding 19" (482mm),
  - Not be modified.
- 14.23.2.6 Exhaust mounts:
- The exhaust must have at least three mounts to the motorcycle,
  - The silencer must be attached to the frame with at least one

clip. A second moveable coupling must be fitted from the first third of the silencer o the frame with a steel cable of at least 3mm or a strong steel spring.

**SECTION 14F: TECHNICAL REGULATIONS: SIDECARS AND CLASSIC SPEEDWAY**

**14..24 SIDECARS: ALL CLASSES****14..24..1 Frames and Parts**

- 14.24.1.1 Overall height must not exceed 1200mm.
- 14.24.1.2 The tubing used in the construction of the main frame of a sidecar motorcycle must have a minimum wall thickness of 1.5mm.
- 14.24.1.3 The sidecar must be on the left of the motorcycle and, if not an integral part of the chassis, must be fixed to the motorcycle in at least four places.
- 14.24.1.4 The sidecar wheel must be staggered inwards. If the sidecar wheel is mounted by a plate on both sides, the diameter of the axle must exceed 12mm.
- 14.24.1.5 Where the sidecar wheel is mounted with a bracket on one side only, the axle diameter must be a least 20mm.
- 14.24.1.6 The sidecar frame must have a continuous bar along the exterior of the sidecar wheel.
- 14.24.1.7 Fuel tanks must be of a material approved by the Australian Standards Association for fuel containers.
- 14.24.1.8 Drive must only be transmitted through the rear wheel of the motorcycle.

14.24.1.9 Promoters may require additional specifications for the protection of spectators.

14.24.1.10 All exterior barwork and tubework ends must be plugged or capped so as to present a flush or convex end.

**14..24..1..11 The use of titanium in the construction of the frame, the front forks, the handlebars, the swinging arm, the swinging arm spindles and the wheel spindles, is forbidden unless OEM.. The use of light alloys for wheel spindles is also forbidden unless OEM.. The use of titanium alloy nuts and bolts is allowed..**

#### **14..24..2 Streamlining**

14.24.2.1 The streamlining:

- a) Must not be in front of a vertical line drawn through the leading edge of the front tyre,
- b) Must not to the rear of a vertical line drawn through the exterior edge of the rear rim,
- c) May come into contact with the ground with the rear wheel raised 300mm from the ground.

14.24.2.2 Aero panels, side panels and similar attachments may be used provided they are:

- a) Constructed of metal, fibreglass or polycarbonate material,
- b) Free of sharp or protruding edges,
- c) Not dangerous to the rider or other competitors.

14.24.2.3 Horizontal wings and aerodynamic friction assisting devices are prohibited.

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14.24.2.4 In all handlebar positions, there must be a space of at least 30mm between the streamlining and the ends of the handlebars, including any attachments.

#### **14..24..3 Handholds & Footrests**

14.24.3.1 A suitable handhold must be provided for the passenger on the offside of the machine and near the front.

14.24.3.2 Footrests must be on the right hand side to the direction of travel and linked by a continuous bar.

14.24.3.3. Any space between the sidecar body and the rear or sidecar wheel of the motorcycle greater than 76mm must be decked so as to prevent the passenger's hands or feet entering between the chassis bars.

14.24.3.4 Any open area between the footrests, the continuous bar and the right hand side to the direction of travel must be filled in with a suitable material so as to stop a rider or passenger from trapping their feet. **14..24..4 Wheels, Rims & Tyres**

14.24.4.1 Tyres:

- a) Knobby tyres may not be used,
- b) Speedway or Universal Trial block pattern tyres only to be used,
- c) Tyres may be cut or grooved.

14.24.4.2 The sidecar wheel must be either spoked, moulded type mag, or other approved wheel. Riveted type mag wheels are not permitted.

14.24.4.3 The area inside a spoked wheel must be covered by a disc or shield so as to prevent a rider's or passenger's feet or hands coming into contact with the spoked area.

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14.24.4.4 The sidecar wheel must be covered by a non-rotating shield which must:

- a) Be constructed of sheet metal, fibreglass or similar material and be flat or nearly so,
- b) Be securely fitted to the sidecar,

- c) Incorporate a 25mm (20mm for Junior Sidecars) horizontal crash bar surrounding the outer side of the sidecar wheel at floor level,
- d) Cover at least the outward facing spoked area, and,
- e) If trials tyres are fitted, cover the tyre area as well.

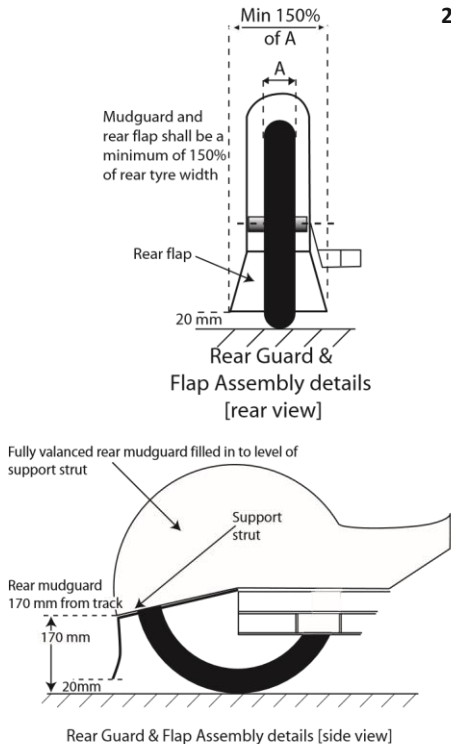


Figure 15.24.5 Rear guard and flap assembly details

14.24.5 Mudguards

14.24.5.1 The fitting of a front mudguard is not compulsory.

14.24.5.2 Rear mudguards must be:

- a) Valenced on both sides down to axle level, to a maximum of 170mm from ground level,
- b) Fitted with a one piece flexible mud flap without any slots, which:
  - i) Is a minimum thickness of 6mm and be of a reinforced belting type rubber,
  - ii) Is attached to the rear mudguard no higher than 30mm from the bottom edge of rear mudguard,
  - iii) Ends no more than 20 mm above ground level,
  - iv) Is attached to three sides of the mudguard and projects forward

to a maximum of 75mm on each side, or if the mudflap is fitted without sides it will be made up of 3 parts. The assembly will consist of the rubber mudflap, this will be 6mm thick, 150% of the tyre width (minimum 200mm wide) and a minimum length of 250mm ending no more than 20mm from the ground. The second piece, fixed to the rear of the rubber will be 3mm HDPE plastic the same width as the rubber mudflap with a minimum length of 200mm and ending no more than 70mm from the ground. The third and outer piece will be 3mm HDPE plastic and the same width as the rubber mudflap with a minimum length of 150mm and ending no more than 120mm from the ground. The whole assembly must be attached to the bike with a minimum of 4 fasteners and have no flex at

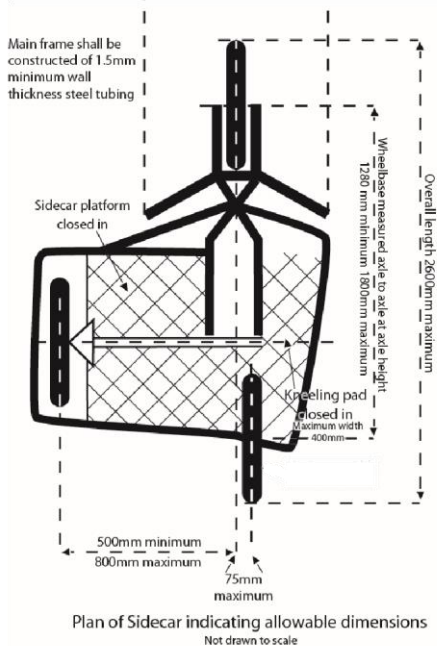


Figure 14.25.1 Speedway sidecar dimensions

**2020 MANUAL OF MOTORCYCLE SPORT****the attachment area..**

v) Is a consistent width from top to bottom,

14.24.5.3 Rear mudguards may be incorporated into the passenger's seat moulding.

**14..24..6 Exhaust Systems**

14.24.6.1 Exhaust fumes must be discharged towards the rear of the machine. Exhaust fumes must not be discharged so as to raise dust, foul the tyres or inconvenience the passenger or any other rider or passenger.

14.24.6.2 The exhaust must be attached to the machine at a minimum of three locations, two on the frame, (one to the rear), in addition to the one on the cylinder head.

**14..25 SIDECAR: SENIOR****14..25..1 General**

14.25.1.1 The overall width must not exceed 1500mm.

14.25.1.2 Overall length from the leading edge of the front tyre to the outside of the rear mudguard must not exceed 2600mm.

14.25.1.3 The wheel base taken at axle height from the centre of the front axle to the centre of the rear axle, must measure between 1280mm and 1800mm.

14.25.1.4 The wheel track, taken between the tracks left by the centre lines of the rear motorcycle wheel and the sidecar wheel, must measure between 500mm and 1100mm.

14.25.1.5 The centre lines of the tracks made by the front and rear wheels of the motorcycle when the machine is proceeding directly forward must be no further apart than 75mm.

14.25.1.6 The width of the kneeling pad on the offside of the machine must not exceed 400mm.

14.25.1.7 Stub axles must have a minimum diameter at the base plate of 40mm.

14.25.1.8 Solo two ply and four ply 75mm (3") tyres may not be used on rear rims exceeding 127mm (5") in width.

14.25.1.9 The rear wheels minimum 450mm (18") maximum 475mm (19") diameter, rim width maximum 125mm (5").

14.25.1.10 Underpan must cover underside of the sidecar from the front fairing rail to the sidecar main cross tube and cover the underside of the engine. Underside must be constructed of:

- a) Steel; which must have wired or rolled edges, with a minimum thickness of 1.6mm or
- b) Aluminium; which must have wired or rolled edges, with a minimum thickness of 1.2mm or
- c) Plastic; which must have rounded edges and be a minimum thickness of 3mm.

**14..26 SIDECAR: JUNIOR****14..26..1 General**

14.26.1.1 The overall width must not exceed 1400mm.

14.26.1.2 Overall length from the leading edge of the front tyre to the outside edge of the rear mudguard must not exceed 2100mm.

14.26.1.3 The wheelbase, taken at axle height from the centre of the front axle to the centre of the rear axle, must measure between 1500mm and 1200mm.

14.26.1.4 The wheel track, taken between the tracks left by the centre lines of

the rear motorcycle wheel and the sidecar wheel, must measure between 800mm and 600mm.

- 14.26.1.5 The width of the kneeling pad on the off side of the motorcycle must not exceed 300mm.
- 14.26.1.6 Stub axles must have a minimum diameter at the base plate of 25mm.
- 14.26.1.7 Front and rear rim diameter for the motorcycle must not exceed 19" (482mm).
- 14.26.1.8 Rear rim width for the motorcycle must not exceed 102m.

#### 14..26..2 Engine

- 14.26.2.1 Engine capacity must not exceed 250cc, and must be 4-stroke only.
- 14.26.2.2 Machines must be fitted with an unmodified 4-stroke production engine and may be fitted with an operating gearbox.

### 14..27 CLASSIC SPEEDWAY

#### 14..27..1 Eligibility: Classic Solo

- 14.27.1.1 Engines must have been manufactured before 31st December 1976.
- 14.27.1.2 Competitors must be aged at least 30 years at the date of the competition.

#### 14..27..2 Solo Frames

- 14.27.2.1 The frame must:
- Have a front wheel diameter of 23" (594mm),
  - Have a rear wheel diameter of 19" (482mm),
  - Have rear tyres with a maximum tread pattern depth of 8mm,
  - Not be fitted leading-link front forks.

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#### 14..27..3 Solo Engines

- 14.27.3.1 The engine must:
- Be single cylinder,
  - Be two-valve with push rod operation,
  - Have a single spark plug,
  - Have a maximum capacity of 500cc +/- 2% tolerance,
  - Be vertical in the chassis,
  - Be fitted with a round slide carburettor of 38mm maximum bore,
  - Not be fitted with a centre port cross flow cylinder head.
  - Post Classic
  - Four Valve engine (or conversion) must have been manufactured before 31st December 1994.
  - Be a single cylinder, four valve with push rod or OHC operation.
  - Be fitted with a round slide carburettor of 36mm maximum bore.

#### 14..27..4 Eligibility: Classic and Post Classic Sidecars

- 14.27.4.1 All machines must comply with GCR 14.18.1.5 (kill switch).
- 14.27.4.2 Maximum standard engine capacity of 1020cc and no reconditioning tolerance is allowed or 750cc 4 - valve air-cooled.

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14.27.4.3 Only machines of the type raced in Australian Speedway competition for the selected era will be eligible.

**14..27..5 Classic Class: British, European & American Sidecars**

14.27.5.1 This class will cover machines using original factory motorcycle frames and standard forks, i.e. one made by a recognised motorcycle manufacturer.

14.27.5.2 Motors will be 4-stroke two valves per cylinder, air cooled and a maximum of two cylinders, manufactured prior to December 31st 1974.

**14..27..6 Classic Class: Japanese Sidecars**

14.27.6.1 This class will cover machines with factory motorcycle frames.

14.27.6.2 Motors will be Japanese 2-stroke and 4-stroke SOHC multi cylinder engines with a maximum of two valves per cylinder.

14.27.6.3 Engines must be manufactured prior to December 31st **1979**  
~~1974~~.

**14..27..7 Post Classic Sidecars**

14.27.7.1 This class will cover machines using original factory frames.

14.27.7.2 Motors will be 2-stroke and 4-stroke two valve DOHC multi cylinder air cooled engines.

**14..27..8 Evolution Class Sidecars**

14.27.8.1 This class will cover machines using period style and purpose built frames. Mitch style frames are not permitted.

14.27.8.2 Motors will be maximum four valve DOHC multi-cylinder air **or water** cooled engines manufactured prior to 31st December 1985.

14.27.8.3 Bodywork and fairings to be a type and material relevant to the

period. No later than eliminator type wedge, constructed of fibreglass.