

# VINTAGE ROAD RACING ASSOCIATION RULES AND REGULATIONS

## PART A

### 1a. INTRODUCTION

The Vintage Road Racing Association (VRRRA) was formed in 1980 by a group of enthusiasts whose main interests were the collection and preservation of vintage racing motorcycles and the use of these machines in racing events. The motorcycles range from vintage street machines prepared for racing, through factory built Grand Prix racers from the late forties to the early eighties. Various classes have been formed to accommodate a wide variety of machines.

The following Rules and Regulations are intended to aid the VRRRA membership in their efforts to preserve, display, and demonstrate street and Grand Prix racing motorcycles as they were in the historic era known as the Vintage years.

Part A of the Rules and Regulations detail procedures and rules that apply to all riders and machinery. Part B describes the specific rules for each class of machinery. Although classes are defined in these rules, there is no obligation on behalf of the VRRRA, or the race organizers to run all defined classes in a VRRRA event. Matters of race organization are beyond the scope of these rules. Competitors are advised to contact the VRRRA executive, well in advance, for information about which classes will be supported at a given event.

Proposals for changes to the Rules and Regulations must be submitted in writing to the Technical Coordinator by August 31st of each year. The proposal must detail the additional wording and/or changes and quote the applicable rule. Proposals will be reviewed by the Technical Committee in accordance with Article 30 of the Constitution prior to the annual general meeting of the VRRRA.

### 1b. DEFINITIONS

**VRRRA EXECUTIVE:** consists of the President, Vice President, Technical Coordinator, Competition Coordinator and the Treasurer, elected and with duties defined by the Constitution of the VRRRA.

**COMPETITION COORDINATOR:** member of the executive who undertakes all matters respecting the organization and operation of racing events (Constitution Article 14).

**TECHNICAL COORDINATOR:** member of the executive who chairs the Technical Committee and ensures that safety and eligibility scrutineering is carried out (Constitution Article 17).

**TECHNICAL COMMITTEE:** develops safety and machine eligibility rules and organizes scrutineering of motorcycles and safety equipment (Constitution Article 30).

**TECH INSPECTOR(SCRUTINEER):** persons appointed by the Technical Coordinator who ensure that racing machines and rider equipment meet eligibility and reasonable standards as set down by the Technical Committee (Constitution Article 33).

## 1c. INTERPRETATION

Hard and fast rules for the preparation of machines for vintage racing are difficult to lay down and enforce. It is hoped that club members and all others involved in the preparation of machines for racing will interpret the rules in the proper **spirit and intent**.

## 1d. MODIFICATIONS

It is appreciated that with older machines that are out of production, parts have to be altered and possible non-standard parts substituted. Any external modifications must be in keeping with the "period look" of the rest of the machine and be consistent with safety. This aspect must be borne in mind with respect to the following Rules and Regulations. Check with the technical committee before substituting non-standard parts.

## 2. GENERAL REGULATIONS

- 2a. It is intended that modifications be carried out to upgrade a machine. Downgrading of racing machines to street class is not permitted.
- 2b. No bumping up into a larger displacement class within periods is allowed.
- 2c. No machine shall be purposely modified to a capacity which extends beyond the upper or lower boundaries of its natural displacement class in order to attain eligibility to another class of the same period.
- 2d. All motorcycles must use commercially available gasoline. This specifically excludes gasohol, alcohol, nitro, R.D.I., or any combination of these elements.
- 2e. All machines must conform to the applicable sanctioning body safety regulations in effect at the race track.
- 2f. Machines must be acceptably clean and tidy as presented for tech inspection. Any motorcycle that is presented to the Tech Inspectors in a condition which prevents them from carrying out a thorough inspection of that machine will be turned away from the tech line and will not be inspected until the infractions have been remedied.
- 2g. Where noise restrictions are in force, the VRRRA will follow the rules of the track. **All machines** must conform to the noise rules in effect at the track. It is recognized that mufflers that are not consistent with the period may have to be installed to comply with the noise regulations.
- 2h. Entrants may be required to show proof of previous road racing experience or completion of an appropriate road racing school.
- 2i. The VRRRA executive may disqualify a person from the event and in addition may levy fines against a rider/owner/pit crew should they create a situation that could jeopardize the safety of event goers and/or organizers or compromise the security of the VRRRA and the event in any way. Refusal to pay the fine shall result in the disqualification of the rider/bike/owner/pit crew from the event and from all future VRRRA events until restitution is made.
- 2j. There is to be no alcohol consumed in the pits while the track is open.

### **3. EQUIPMENT**

#### **3a. Riders**

Competitors must wear suitable road racing approved riding equipment consisting of leather gloves, leather jacket, leather pants, and leather boots to a minimum height of 8 inches from the top of the sole and overlapping the pants. Two-piece leathers must be zipped together at the waist. The Technical Committee recommends the use of back protectors and other body armour.

Road racing helmets must be full-faced units, with approved shatter resistant face shields. Riders are prohibited from using damaged helmets. Helmets must be certified by the manufacturer as Snell M2000 approved, by having a sticker affixed to the helmet which states that it meets or exceeds this standard. It is the responsibility of the rider to select a Snell M2000 helmet which will provide appropriate protection. While the VRRRA, in the interest of safety stipulates Snell M2000 certified helmets, it neither endorses nor guarantees specific products or manufacturers. Riders must rely on their own judgement in the selection of a Snell M2000 helmet for safety and durability.

#### **3b. Machinery**

All machines must be fitted with properly working complete clutch, gearbox, brakes, integral ball-ended brake and clutch levers.

The rear wheel must have an efficient cover extending back at least to a vertical line through the rear axle.

The top portion of the chain/belt on the primary drive, and the portion of the chain/belt on the rear half of the clutch, must have an adequate protection guard. (Note: some organizations require total enclosure.)

All machines must have a well marked operational engine kill switch or kill button mounted on or adjacent to the handlebars or clip-ons, within easy reach of the rider.

#### **3c. Tires**

Competitors must ensure that the tires fitted to their machines are of a suitable specification to cover the factors of racing weight and capacity. Tires must be treaded and in very good condition. No slicks, hand-cut slicks or retreaded tires are permitted, however racing type rain tires are acceptable. Check with the tire manufacturer for the proper size tires for your rims. The Tech Inspectors will reject any machine which, in their opinion, does not have suitable tires.

#### **4. PROCEDURES**

- 4a.** It is the responsibility of the competitor to provide reasonable proof as to the age of either the machine, or the components of the machine, if the eligibility of either is questioned by the Technical Committee.
- 4b.** Exceptions to the Rules and Regulations may be made at the discretion of the Technical Committee and subject to Executive approval. The Technical Committee has the final decision as to the interpretation of the Rules and Regulations, and is responsible for enforcement of the same.
- 4c.** Requests for clarifications or exceptions to the Rules and Regulations must be made to the Technical Committee, in writing and including a photograph of the motorcycle components in question, no later than 30 days prior to a race meeting. Entrants are advised to clarify exceptions before construction.
- 4d.** Every machine that is entered in a VRRRA event must be inspected and judged safe before that machine can enter on to the race track.
- 4e.** The Tech Inspector may at any time recall a machine for further inspection if he/she has any doubts about the machine's safety.
- 4f.** The Tech Inspector has the right to final decision over any matter of technical or safety legality. Appeal of a Tech Inspector's decision lies only with the Technical Coordinator, or a member of the Technical Committee appointed as delegate for the event. The Technical Coordinator's ruling on a safety or machine eligibility matter is binding upon the referee and the President.
- 4g.** At the discretion of the race officials, all machines shall be inspected for fluid leakage before and after all track sessions. If any leaks are found, the machine shall return to the pits, have the leak corrected and go through full technical inspection prior to re-entering the track.
- 4h.** It is the responsibility of the rider to ensure that their equipment and machine, be it their own or borrowed, meets all the VRRRA Rules and Regulations.
- 4i.** Any machine whose handlebars have touched the ground during practice or a race must be re-inspected before returning to the track for practice or subsequent racing events.
- 4j.** Any machine running with loose or hanging parts that endanger the competitor or other competitors will be "black flagged" and subject to re-inspection.
- 4k.** In RACE events where the VRRRA is invited to participate, these Rules and Regulations shall apply for machine eligibility.

## **5. MACHINE ELIGIBILITY PROTESTS**

- 5a.** All formal protests regarding machine eligibility at VRRRA events must be filed with the Technical Coordinator or, in his/her absence, with a member of the Technical Committee.
- 5b.** Protests must be lodged by a rider participating in the same race as the protested machine.
- 5c.** Protests must be filed within 20 minutes of the posting of the official results.
- 5d.** Eligibility protests are considered a minor protest, and must be accompanied by a \$25.00 cash deposit.
- 5e.** Major protests involving an engine teardown and/or disassembly of the motorcycle require a \$50.00 cash deposit.
- 5f.** Should the protest be ruled in favour of the person protesting, the cash deposit shall be refunded. Should the protest not be upheld, then the cash deposit shall be awarded to the owner of the motorcycle that has been protested; in addition the person filing the protest must pay reasonable costs for parts rendered unusable.
- 5g.** Should the owner/rider refuse protest inspection, then the machine and rider will be disqualified from the event and the rider will lose all accumulated series points for that year. In addition, and at the discretion of the executive, the owner/rider may be suspended from any event run under VRRRA rules for a period of up to 13 months. The cash deposit shall be returned to the person who filed the protest.
- 5h.** Competitors caught using an oversized engine will be penalized by disqualification in that class at the particular event and will lose all accumulated series points for the particular year.
- 5i.** Notwithstanding 5b, the Technical Committee may decide to open an engine to confirm size without a formal rider protest. If the machine is found to be legal the VRRRA will pay for the cost of gaskets plus the \$50.00 protest fee. If the machine is found to be illegal the regular penalties in 5g apply.
- 5j.** A protesting rider unsatisfied with a judgement can appeal to the Executive, verbally within one hour and in writing within one week of the judgement. Appeals must be accompanied by a \$25.00 non-refundable fee.

## **6. RIDER CONDUCT PROTESTS**

- 6a.** All formal protests regarding rider conduct at VRRRA events must be filed with the Referee.
- 6b.** Rider conduct protests must be accompanied by a \$25.00 cash fee.
- 6c.** Protests must be lodged by a rider participating in the same race as the protested rider.
- 6d.** Protests must be filed within 20 minutes of the posting of the official results.
- 6e.** If the protest is ruled in favour of the person protesting, the cash fee shall be refunded. The offending rider may be excluded from the results of that race and forfeit any awards.
- 6f.** There is no appeal from the decision of a referee.

## **7. MACHINE SAFETY REQUIREMENTS**

The following is a non-inclusive checklist for preparing racing motorcycles and will be part of the criteria used to determine if a motorcycle is safe for road racing.

### **ENGINE, GEARBOX AND RELATED COMPONENTS (where fitted)**

#### **Check:**

- any hose or pipe that has fluid of any kind passing through must be lockwired
- engine oil level (wet sump)
- gearbox oil level
- clutch secure and adjusted
- engine and gearbox mounting plates and fasteners tight
- primary chain adjusted and lubricated
- primary chain master link clip installed in proper direction and lockwired
- no oil leaks
- oil filler caps wired
- all drain plugs, caps, level check plugs or covers on engine, primary drive and transmission group which will drain oil if loosened must be lockwired
- inspection covers on engine, primary cover and gearbox must be lockwired or otherwise secured
- all vents from engine and gearbox to be of adequate size, free and clear and piped to an empty catch bottle of adequate size
- all oil- lines secured and ends clamped so as to prevent line from sliding off of fittings
- all oil lines must be secured by lockwire as secondary security
- oil filter mounts tight and filter secured by lockwire or other means
- oil tank drains and banjo bolts lockwired
- oil tank filler cap lockwired or secured by mechanical device that will prevent it from opening or unscrewing
- adequate oil in tank
- radiator caps and all water drain plugs must be lock wired
- radiator breather/overflow hose must be piped to a catch bottle of adequate size
- only water is to be used in cooling systems, anti-freeze or any other additive is prohibited
- fuel lines secured by safety wire or gear clamps
- no leaks in fuel system
- carburetor fasteners tight
- carburetor tops tight
- carburetor float bowl drains lockwired
- exhaust system, fairing and footpegs mounted to allow adequate ground clearance for roadracing
- exhaust systems, including megaphones, expansion chambers, mufflers and baffles must be securely mounted, all mounts and brackets must be lockwired and where possible, there should be a second system securing the pipes

## **REAR WHEEL AND RELATED COMPONENTS (where fitted)**

### **Check:**

- excess tire wear
- tire pressure
- spokes tight
- rim straight
- valve cap on (metal, not plastic)
- wheel balanced
- wheel balance weights secure
- axle nut lockwired or cotter-pin
- all brake mounting hardware must be lock wired or fitted with a cotter pin
- brake stay bolts lockwired or cotter-pin
- brake adjusted and effective
- brake cable or brake rod not damaged or worn
- all brake cables and rods with threaded adjusters must be lock wired to prevent loss of adjuster
- brake pedal and pivot secure
- chain adjusters secure
- wheels in line
- front and rear sprocket retaining hardware secure
- final drive chain lubricated and adjusted
- master link clip installed with open end of clip at trailing end of master link (clip shall be safety-wired)
- rear fender secure

## **FRONT WHEEL AND BRAKE, FRONT SUSPENSION, HANDLEBARS, CONTROLS AND RELATED COMPONENTS (where fitted)**

### **Check:**

- excess tire wear
- tire pressure
- spokes tight - none broken
- rim straight
- valve cap on (metal, not plastic)
- wheel balanced
- wheel balance weights secure
- wheel bearings not worn
- axle nut lockwired or cotter-pin
- axle clamps tight and wired (lower fork leg)
- fork leg drain plugs wired, unless countersunk in the fork leg, in which case tape wrapped around the fork leg and covering the drain will suffice
- forks dampen and rebound (no leaks)
- adequate oil in the forks
- fender secure
- front brake adjusted and effective
- front brake cable(s) lubricated
- front brake cable(s) not frayed or damaged
- all brake mounting hardware must be lock wired or fitted with a cotter pin
- all brake hoses must have banjo bolts or fittings lockwired
- brake stay bolts/torque arms lockwired or cotter-pin (lock nuts or retaining plates are acceptable)

- upper and lower crown pinch bolts and fasteners tight
- clip-ons or handlebars tight
- all throttle cables must be secured to the throttle housing by lock wire
- throttle snaps shut without assistance at any steering position
- adequate clearance between the front brake lever and the throttle housing on hard application of the brake
- kill switch operating and wiring secure
- handgrips tight on the bars (make sure they do not get loose when bars are wet)
- steering head bearings properly adjusted and not binding or loose
- steering stops fitted to prevent clip-ons, handlebars, or controls from contacting the fuel tank or fairing at full steering lock in either direction
- clutch lever, brake lever, and throttle housing secure on handlebars
- clutch cable nipples and barrels not worn
- clutch cable not frayed or damaged at either end

### **FRAME, STREAMLINING AND RELATED COMPONENTS (where fitted)**

#### **Check:**

- all lenses, reflectors or glass removed or duct-taped
- fairing mounts and fairing secure
- fairing not interfering with operation of the machine
- no jagged edges on fairing or windscreen
- all stands removed
- number plates regulation size and colour (see VRRRA Rules)
- numbers regulation size and colour (see VRRRA Rules)
- no cracks or visible damage to frame or swingarm
- swingarm pivot tight and lockwired
- rear suspension mountings tight and lockwired
- fuel tank secured such that it will not separate from the motorcycle in the event of an accident
- battery and battery box secure
- battery charged
- wiring secured and not frayed
- seat mounts secure

## SUMMARY OF THE VINTAGE RACING CLASSES

- 1. EARLY VINTAGE\*:** Motorcycles manufactured before December 31, 1949.
- 2. PRE-65:** Motorcycles of a maximum model year 1964. There are two displacement classes:  
350cc and 500 cc.
- 3. PERIOD ONE CLASSIC VINTAGE:** Maximum model year 1967. GP racing class style motorcycles. Any machine originally manufactured for roadracing, or a machine subsequently modified for roadracing. There are five classes:  
200GP \*  
250GP  
350GP  
500GP  
Open GP
- 4. PERIOD TWO SUPERVINTAGE:** Maximum model year 1972. Any machine originally manufactured for roadracing or a machine subsequently modified for roadracing.  
There are 3 classes:  
200 \*  
Lightweight Supervintage (formulated)  
Heavyweight Supervintage (formulated)
- 5. MIDDLEWEIGHT PRODUCTION:** Maximum model year 1976. Any machine originally sold for street use and subsequently modified for road racing.
- 6. PERIOD THREE:** Maximum model year 1982. Any machine originally manufactured for roadracing or a machine subsequently modified for roadracing. There are three classes; LIGHTWEIGHT, MIDDLEWEIGHT and HEAVYWEIGHT. Machines can be run as GP, or GP replicas and Superbike style.
- 7. SIDECAR:** There are three classes for outfits built before the cut-off dates or constructed after such dates and are consistent in design and construction with outfits actually built in that period;  
P1 Classic for outfits built before 1968 \*  
P2 Supervintage for outfits built before 1973 \*  
P3 for outfits built up to and including 1982\*

### **SPECIAL FEATURE RACES**

**WARWICK CUP:** This class was created to honour one of the VRRRA's founding members, Doug Warwick. The class is limited to British four-strokes up to 500cc, maximum model year 1967. Period one rules apply. This class is only run at the VRRRA annual vintage festival at Mosport.

**McGILL MASTERS:** Created in memory of another founding member, Tom McGill, this class is intended for riders over the age of 53. It is usually divided into three rough displacements: Lightweight, up to 350 cc, Middleweight, 500cc, and Heavyweight, over 500cc. \*

NOTE: Classes marked with an asterisk (\*) are not normally run in conjunction with the RACE series. These classes are normally only run at special events the VRRRA is involved with.

## **VINTAGE CLASS RULES:**

**All rules in Part A are applicable to all classes.  
The following class rules are specific to each class.**

### **1. EARLY VINTAGE**

- 1a.** Motorcycles manufactured before December 31, 1949.
- 1b.** No updating beyond December 31, 1949.

**2. PRE-1965** Motorcycles must be of a maximum model year of 1964. The intent of this class is to provide a venue for motorcycles that are generally not competitive in Period 1 and also to encourage the reappearance of older racing motorcycles in a forum where they can compete against machines having similar performance capabilities.

### **THERE ARE TWO CLASSES OF PRE-65, 350 cc and 500 cc.**

Maximum engine displacement is 350 cc and 500 cc. Side valve engines with a maximum displacement of 750 cc may run in the 500 Class.

**2a. ENGINES:** Must be naturally aspirated. The maximum allowable cylinder overbore is 5% above the class displacement limit.

**2b. PRIMARY DRIVES:** Primary drives may be of chain, belt or gear type construction. The top portion of the chain/belt on the primary drive and the portion of the chain/belt on the rear half of the clutch must have an adequate protective guard.

**2c. GEARBOXES AND FINAL DRIVES:** Must be of a style and type available during the pre-65 era.

**2d. CARBURETORS:** Carburetors of a style and type available up to the end 1967 are permitted. NO post-period smoothbores or flat-slide carbs are allowed. Carburetors using power jets or any form of accelerator pump are not permitted.

**2e. IGNITION SYSTEM:** Ignition systems eligible for pre-65 include magneto and battery/coil. Electronic ignition systems are permitted, provided they are concealed from view.

**2f. EXHAUSTS:** Must be of a style and type in use during the period.

**2g. FRAMES:** Must be of an original style and type from the period, suitably prepared for racing (removing street hardware etc.). Extra bracing typical of the period is permitted. Replicas of period frames are permitted such as Featherbed, Lyster, Domiracer and Seeley.

**2h. SWING ARMS:** Must be of an original style and type from the period. Bracing in the form of additional tubes forming a trusswork is NOT permitted. Replicas of period swingarms are permitted.

**2i. FORKS:** Forks of a style and type available up to the end of 1967 are allowed in the pre-65 class. The maximum stanchion (fork tube) diameter shall not exceed 35 mm. Fork legs must not have disc brake mounting lugs.

**2j. REAR SHOCKS:** Rear shocks of a style and type available up to the end of 1967 are allowed in the pre-65 class. However, upside down shocks, shocks with air fittings unless OEM (Velocette KTT), remote or external reservoirs are not permitted.

**2k. WHEELS:** Must be wire spoked and must not be smaller than 18 inch diameter. Rim widths shall not exceed WM 4 (2.50) on the front or rear.

**2l. BRAKES:** Drum brakes only are permitted and must be of style and type from the pre65 era. In no case shall the drum diameter exceed 8.5 inches.

**2m. TIRES:** Maximum width is 130 mm as stamped by the manufacturer of the tire.

**2n. BODYWORK:** (Tank, seat, fairing) Shall be of a style and type used during the period. Stock seat is permitted but hump back racing type is preferred. No post period seats or fairings such as TZ Yamaha are allowed.

**2o. HANDLEBARS:** Must be a racing or production style available up to the end of 1967.

**2p. NUMBER PLATES:** Must be 9" x 11" oval or rectangular in size. Numbers must be minimum 7" high by 1" stroke. Colours must be as follows:

<b>Class</b>	<b>Numbers</b>	<b>Background</b>
350cc	White	Blue
500cc	Black	Yellow

**EXAMPLES OF TYPICAL MOTORCYCLES ELIGIBLE FOR THE CLASS:**

Triumph - 500 Twin	BSA 500 Twin
BSA Gold Star - 350/500 Singles	BSA 441 Single
Honda Super Hawk - 250/305	Yamaha YDS - 250/305
Manx Norton - 350/500	Velocette - 350/500
Norton - 500 Twins	Norton ES2 - 500 Singles
AJS / Matchless - 500 Singles	Indian / Harley - 750 Side Valve
Aermacchi - Long Stroke only	Ducati Singles - Narrow Case

### **3. PERIOD 1 CLASSIC VINTAGE:**

**All rules in Part A are applicable to all classes.**

GP racing class or street (production) class motorcycles having a maximum model year of 1967, two stroke or four stroke.

#### **PERIOD ONE STREET CLASS:**

Machines as originally built and supplied by the manufacturer specifically for road use.

Modifications are restricted to improvement of brakes, footpegs and handlebars but these must be period in appearance. Modern brake linings may be used. Lamp glasses must be either removed or taped. Generator drives may be disconnected and batteries may be removed.

**NOTE: This class, although still in the rulebook, is not being run at this time.**

#### **PERIOD ONE GP RACING CLASSES:**

Motorcycles must be of a maximum model year of 1967 two stroke or four stroke. Any machine manufactured purely for racing, or a machine subsequently modified and prepared purely for racing. Modifications are allowed, provided they conform to the regulations and Vintage intent of the following specifications. No components are allowed that fall outside the period of the machine.

#### **FIVE CLASSES OF PERIOD ONE GP RACING:**

200 GP - up to 200cc

250 GP - up to 250cc

350 GP - 251cc to 350cc

500 GP - 351cc to 500cc

Open GP - 501cc and over

**3a. ENGINES:** Must be naturally aspirated, having a maximum model year of 1967. Two stroke engines shall not be fitted with reed valves and shall not use later cylinders. Engines may be internally updated, but must be of the same external appearance as the items used during the period. Big bore kits (for unlimited class) may be used provided they were available in the period. The maximum allowable cylinder overbore (except for unlimited class) is 5% above the class limit.

**3b. PRIMARY DRIVES:** May be of chain, belt or gear type construction. The top portion of the chain/belt on the primary drive, and the portion of the chain/belt on the rear half of the clutch, must have an adequate protective guard. Norton Commando primary drive and clutch may be used in Period 1. For safety reasons, the Technical Committee recommends total enclosure of the primary drive.

**3c. GEARBOXES AND FINAL DRIVES:** Shall be of a type and model used during the period, and must retain the original external appearance. There are no restrictions on internals.

**3d. CARBURETORS:** are without size restriction, but must be of a type and model used during the period. Typically accepted carburetors are: Amal 76 and 276, Monobloc, Mkl Concentric, TT, RN, GP, and Mk11. Also accepted is the round-slide VM style Mikuni as used on early Yamaha racing motorcycles. Genuine period smoothbores are permitted. Lectron type (flat slide) and post-period smooth-bore carbs are not permitted. Carburetors using power jets or any form of accelerator pump are not permitted.

**3e. IGNITION SYSTEMS:** Include magneto and battery/ coil. Electronic systems are permitted, provided they are concealed from view.

**3f. EXHAUSTS:** Must be of a style and type in use during the period.

**3g. FRAMES:** Frames must be of an original style and type from the Period and must be of round tubular steel construction, with the exception of the Greeves Silverstone with the original racing frame. No mono-shock type frames except Vincent frames. Replicas of Period frames are permitted.

**3h. SWING ARMS:** The swing arm must be of an original style and type from the Period, must be of round tubular steel construction and must be of a conventional style. Each leg must be constructed of a single tube. The movement must be controlled by suspension units mounted on each leg of the swingarm at either side of the rear wheel by the rear axle. Period swingarms that deviate from this rule are allowed, but only on frames they were originally designed for. For example, Greeves Silverstone, Manx Norton.

**3i. FORKS:** Must be of a type available during the period. Air dampening is permitted only on Velocette Oleomatic units. Post-period anti-dive devices are not permitted. Maximum stanchion diameter is 35mm, unless the motorcycle was originally equipped with a larger fork diameter in which case the forks shall be of the original type e.g. Rickman.

**3j. REAR SHOCKS:** Must be of a style and type from the period. Shocks with air fittings, remote or external reservoirs are not permitted.

**3k. WHEELS:** Must be wire-spoked with a minimum rim diameter of 17 inches and a maximum rim width of WM 4 (2.50).

**3l. BRAKES: Drum type only** are permitted on front and rear wheels.

**3m. TIRES:** Maximum width is 130mm, as stamped by the manufacturer of the tire.

**3n. BODYWORK:** (Tanks, seats, fairings) Must be of a racing style or pattern in use during the period.

**3o. HANDLEBARS:** Must be clips-ons or flat bars with a maximum rise of 2 inches above handle bar clamps.

**3p. FOOT CONTROLS:** Must be of the "rearsset racing style" defined as having the footpeg mounted on or behind the centre line of the swingarm pivot.

**3q. NUMBER PLATES:** Must be 9" x 11" oval or rectangular in size. Numbers must be minimum 7" high by 1" stroke. Colours must be as follows:

<b>Class</b>	<b>Numbers</b>	<b>Background</b>
200 GP	White	Black
250 GP	White	Green
350 GP	White	Blue
500 GP	Black	Yellow
Open GP	Black	White

**HONDA CB/CL/SL/350** twin cylinder machines, in order to be eligible for Period 1 GP, are limited to stock original equipment engine internal and external parts as originally fitted to these models. No parts designed for another model of Honda or any other motorcycle may be used. In addition, no aftermarket components are allowed. Carburetors must also be stock original equipment as fitted to these models. Ignition systems may be after market and/or electronic . **NO MODIFICATIONS WHATSOEVER** by any machining or chemical process may be made to the engine, intake tract, carburetors, or any other engine component. The only modifications allowed are the removal of the electric starter, alternator components and the fitting of a racing style exhaust. The rolling chassis must be of a racing style as per Period 1 rules. Correspondingly, modified Honda CB/CL/SL 350 twin cylinder machines which deviate from the use of stock original equipment engine components are now moved to the Period 2 Supervintage Lightweight class.

**The following examples and exceptions are permitted in Period 1.**

Any road-based Aermacchi (Harley Sprint) 250 or 350cc four-stroke single up to and including 1974, drum brakes only.

BMW Rennsport, and /5 models (Maximum displacement 750cc equipped with drum brakes.)

BSA 441 & B50 (no 4-valve heads will be permitted)

BSA twins to 650cc

Bultaco - all motors/bikes drum brake models through 72.

Ducati singles

Greeves Silverstone

Harley-Davidson KR, ER, and CR roadracers

Honda CB/CL/SL 350cc with drum brakes (see note above)

Honda CR, CB, and CL twins to 500cc

Laverda 750 SF, drum brake models

Montesa all drum brake models

Norton 750cc Commando with drum brakes only

Ossa all drum brake models

Jawa 2-valve, four-stroke single cylinder speedway engines through 1978. No overhead camshafts permitted. The engine must be mounted in a period touring or roadracing frame, and must not use total loss engine lubrication.

Rickman CR Road Racing chassis powered by H-D CR or ER, G50 or 7R

Seeley G50 or 7R

Royal Enfield

Suzuki T250, T350 & GT 250 (with Ram-Air removed) with drum brakes only

Triumph twins to 650cc

Velocette

Yamaha TD-1A

P1-200

Eligible machines generally include all those that meet the AHRMA 200GP rules (which are printed on the following page) including all restrictions. Machines must be approved by the VRRRA technical committee.

10.2.4 200 GRAND PRIX PLUS: This class combines a variety of engine designs and displacements, based on an index of performance. Eligible machines are listed below by make, model, displacement, and individual restrictions. Like-design models also are permitted. Displacement as noted below may not be increased beyond the allowable overbore.

Aermacchi/H-D 250cc long-stroke (66mm bore x72mm stroke), wet clutch, original backbone chassis, maximum 30mm carburetor (i.e., up to 1965 only)  
AJS/Matchless 250cc pushrod single, maximum 30mm carburetor  
Ariel Arrow 250cc twin, original frame and forks, one 32mm or smaller carburetor  
Benelli 250cc pushrod single, maximum 30mm carburetor  
BMW R26 250cc single, maximum 30mm carburetor  
Bridgestone 175cc twin, maximum 22mm carburetors  
BSA/Triumph 250cc single, maximum 30mm carburetor  
Bultaco 125cc water-cooled GP TSS (round barrel only)  
Bultaco 175cc air-cooled single (round barrel only), maximum 30mm carburetor  
Bultaco 200cc air-cooled single, maximum 4-speed, maximum 28mm carburetor  
Ducati 125, 160, 175, 200cc single  
Hodaka 125cc  
Honda CR110 (CR93)  
Honda CB/CL 160, 175cc twin  
Honda CA/CB 125, 160cc twin  
Indian Arrow 250cc single, maximum 30mm carburetor  
Moto Guzzi 250cc pushrod, maximum 30mm carburetor  
MV 200cc "works" or replica single or twin  
MV Augusta 250cc pushrod, maximum 30mm carburetor  
Norton 250cc pushrod twin, maximum 30mm carburetor  
Ossa 175cc, maximum 30mm carburetor  
Parilla 250cc pushrod, maximum 30mm carburetor  
Parilla 200cc production racer  
Puch/Allstate 250cc split single, maximum one 32mm carburetor  
Rumi 125cc flat twin  
Triumph 200cc T20 Tiger Cub, maximum 250cc with allowable overbore; maximum 30mm carburetor  
Villiers-based 250cc two-strokes such as Cotton, DKW, Greeves, maximum 32mm carburetor  
Yamaha AS1 125cc twin (pre-1968), cast iron cylinders only  
Yamaha CT1 175cc single (no Noguchi engine components), maximum 30mm carburetor  
Yamaha YCS1 180cc twin (pre-1969), cast iron cylinders only, maximum 22mm carburetors.

## **4. PERIOD 2 SUPERVINTAGE**

**All rules in Part A are applicable to all classes.**

Maximum model year 1972. Any machine originally and specifically manufactured for road racing or a machine subsequently modified for racing. All equipment unnecessary for road racing must be removed from the machine, (lights, horns, stands, etc.). Street motorcycles with minor modifications will not be eligible.

### **THREE CLASSES OF PERIOD TWO SUPERVINTAGE:**

**Period Two 200:** - up to 200cc.

#### **Lightweight Supervintage:**

125cc 2-stroke

250cc twin cylinder 2-stroke

360cc single cylinder 2-stroke

360cc twin cylinder 4-stroke

360cc single cylinder 4-stroke

350cc four cylinder 4-stroke

#### **Heavyweight Supervintage:**

Two stroke engines are limited to a maximum of 750cc.

Four stroke overhead camshaft engines are limited to a maximum of 750cc.

Four stroke push rod engines are limited to a maximum of 850cc.

**4a. ENGINES:** Must be naturally aspirated, having a maximum model year of 1972. Two stroke engines shall not be fitted with reed valves. Major engine updating to non period specification is not permitted. Castings and other external parts must be of the same appearance as the items in use during the period. The maximum allowable overbore is 5% above the class limit.

**4b. PRIMARY DRIVES:** May be of a chain, belt or gear type construction. At a minimum, the top portion of the chain/ belt on the primary drive and the portion of the chain/belt on the rear half of the clutch must have an adequate protective guard. For safety reasons, the Technical Committee recommends using total enclosure of the primary drive.

**4c. GEARBOXES AND FINAL DRIVES:** Shall be of a type and model used during the period, and must retain the original external appearance. There are no restrictions on internals.

**4d. CARBURETORS:** Are without size restriction, but must be of a type and model used during the period. Post-period smooth-bore Keihin carbs are allowed to a maximum size of 31mm.

**4e. IGNITION SYSTEMS:** Are without restriction.

**4f. EXHAUSTS:** Must be of a racing style in use during the period.

**4g. FRAMES:** Must be of an original style and type from the period and must be of round tubular steel construction, with the exception of the Greeves Silverstone with the original racing frame. No mono-shock type frames except Vincent frames.

**4h. SWING ARM:** Must be of an original style and type from the period (including dimensions). Must be of round or rectangular tubular steel construction. Each leg must be constructed of a single tube. The movement must be controlled by suspension units mounted on each leg of the swingarm at either side of the rear wheel by the rear axle.

**4i. FORKS:** Must be of a type available during the period. Post period anti-dive devices are not permitted. Maximum stanchion diameter is 38mm, unless the motorcycle was originally equipped with stanchions of a larger diameter.

**4j. REAR SHOCKS :** Must be of a style and type from the period. Remote or external reservoirs are not permitted.

**4k. WHEELS:** Wheels must be wire-spoked construction, with a minimum rim diameter of 17 inches and a maximum width of WM4(2.5") for the front and WM5(3") for the rear.

**4l. BRAKES:** May be of drum or disc design, but must be of a make and type manufactured during the period, including rotors.

**4m. TIRES:** Maximum width 140mm, as stamped by the manufacturer.

**4n. BODYWORK:** (Tanks, seats and fairings) Must be of a racing style or pattern in use during the period.

**4o. HANDLEBARS:** Must be of a racing style or pattern in use during the period.

**4p. FOOT CONTROLS:** Must be of the "rearset racing style", defined as having the footpeg mounted on or behind the centre line of the swingarm pivot.

**4q. NUMBER PLATES:** Must be 9" x 11" oval or rectangular in size. Numbers must be minimum 7" high by 1" stroke. Colours must be as follows:

<b>Class</b>	<b>Numbers</b>	<b>Background</b>
<b>Period Two 200:</b>	White	Black
<b>Lightweight Supervintage:</b>		
125cc	White	Black
250cc	White	Green
350/360c	White	Blue
<b>Heavyweight Supervintage:</b>		
350cc machines	White	Blue
500cc machines	Black	Yellow
750/850cc	Black	White

**EXCEPTIONS AND EXAMPLES:** The following examples and exceptions are permitted in Period 2.

Harley-Davidson XR750, KR750

Honda CR350(modified), CR750, MT 125R air cooled, CB400F, CB350/4 motorcycles may use CB400F crankcase/transmissions in Lightweight Supervintage

Kawasaki H1R, H2R, H1, H2, S1,S2, S3, KH 400.

Miles Engineering Triumph triples built as a replica to the Triumph factory team machines used from 1969 to 1972

Suzuki TR500, TR750, GT500, GT750, GT550

Yamaha TA 125, TD2, TD2B, TR2, TR2B, TD3, TR3 (air-cooled models only)

Norton 850cc Commando

Other Grand Prix racing motorcycles of historic interest will be eligible provided their performance and appearance meets the standards of GP racing machines of this era. Examples include ex-works BSA and Triumph racers, Ducati 750SS, Laverda SFC and Norton 750 PR, etc.

## **5. MIDDLEWEIGHT PRODUCTION**

**All rules in Part A are applicable to all classes.**

Maximum model year 1976. This class is limited to any machine originally sold for street use and subsequently modified for road racing. All frames must specifically have been sold for street use. Dry clutch, all alloy cylinders and power exhaust valves are prohibited.

Up to 400cc single, twin and triple cylinder 2 stroke.

Up to 600cc single cylinder four stroke.

Up to 550cc SOHC four cylinder four stroke.

Up to 650cc pushrod twin cylinder four stroke.

The following machines are permitted regardless of model year:

Honda SOHC four cylinder CB400F, CB500 and CB 550 through model year 1978

**5a. ENGINES:** Naturally aspirated. Castings and engine cases must be of period external appearance. No reed valves on two strokes if not fitted to machine as standard. No form of variable porting allowed on two strokes. The maximum allowable overbore is 5% above the class limit.

**5b. PRIMARY DRIVES:** Are without restriction.

**5c. GEARBOXES AND FINAL DRIVES:** Are without restriction.

**5d. CARBURETORS:** Must be of style and type used in period. Lectrons O.K.

**5e. IGNITION SYSTEMS:** Are without restriction.

**5f. EXHAUSTS:** Must be of a racing style in use during the period. NO CARBON FIBRE.

**5g. FRAMES:** Must have specifically been sold for street use during the period.

**5h. SWING ARMS:** Must be of an original style and type from the period (including dimensions). Must be of round or rectangular tubular steel construction. Each leg must be constructed of a single tube. The movement must be controlled by suspension units mounted on each leg of the swingarm at either side of the rear wheel by the rear axle.

**5i. FORKS:** Must be of a type available during the period. Post period anti-dive devices are not permitted. Maximum stanchion diameter is 38mm, unless the motorcycle was originally equipped with stanchions of a larger diameter.

**5j. REAR SHOCKS:** Must be of a style and type available during the period. No remote reservoirs. External reservoirs are allowed.

**5k. WHEELS:** Cast or Wire Spoke. Astralites permitted. Minimum diameter 18 inches. Maximum width front 2.75 inches, rear 3.50 inches.

**5l. BRAKES:** Must be of a style and type available during the period. NO FLOATING DISCS. NO FOUR PISTON CALIPERS.

**5m. TIRES:** Must be sized for the rims selected as recommended by the tire manufacturer.

**5n. BODYWORK:** If fitted, must be of the style in use for road racing during the period.

**5o. HANDLEBARS:** Are without restriction.

**5p. FOOT CONTROLS:** Are without restriction.

**5q. NUMBER PLATES:** Must be 9" x 11" oval or rectangular in size. Numbers must be a minimum 7" high by 1" stroke. Colours must be as follows: Red numbers on White background.

## **6. PERIOD 3 SUPERBIKE**

**All rules in Part A are applicable to all classes.**

This class is for machines built up to and including 1982 with exceptions allowed where production continued unchanged, and is open to production based and GP machines.

The bikes will run in three classes; LIGHTWEIGHT, MIDDLEWEIGHT and HEAVYWEIGHT. Machines can be run as GP or GP replica, and superbike style.

**SUPERBIKES** will be required to conform to a standard e.g. removal of sidestand and or centre stand, removal of all non-functional electrical components and wiring. Handlebars must be attached to the top yoke and the bike must have rearset footpegs.

**GP** bikes must be factory original or replica. Bodywork will be encouraged. Machines must have clip-on handlebars below the top yoke, rearset footpegs and single race seats.

**LIGHTWEIGHT:** 250cc two stroke water-cooled, 400cc two stroke air-cooled, 550cc four stroke air-cooled and 600cc four stroke air-cooled single.

**MIDDLEWEIGHT:** 350cc two stroke water-cooled, 750cc four stroke air-cooled, 550cc two stroke air-cooled, and unlimited four stroke air-cooled single.

**HEAVYWEIGHT:** 750cc two stroke, 1100cc four stroke air-cooled and unlimited four stroke air-cooled pushrod.

**6a. ENGINES:** Naturally aspirated. Castings and engine cases must be of period external appearance. No reed valves on two strokes unless they were fitted to the machine as standard. No form of variable porting allowed on two strokes. Maximum allowable overbore is 5% over class limit.

**6b. PRIMARY DRIVES:** Are without restriction.

**6c. GEARBOXES AND FINAL DRIVES:** Are without restriction.

**6d. CARBURETORS:** Must be of style and type used within period including flatslides.

**6e. IGNITION SYSTEMS:** Are without restriction.

**6f. EXHAUSTS:** Must be of a racing style in use during the period. NO CARBON FIBRE OR TITANIUM.

**6g. FRAMES:** No aluminum, only complete period factory frames or replicas can be used.

**6h. SWING ARMS:** Period round or box section, and period sub-frame swing arms, steel or aluminum will be allowed. No monoshocks unless factory original from the period.

**6i. FORKS:** Must be original style, size and type in use during the period. No upside down forks.

**6j. REAR SHOCKS:** Must be of a style and type in use during the period. Remote and external reservoirs are allowed.

**6k. WHEELS:** Cast or Wire Spoke. Minimum diameter 17 inches, unless the machine was built by the factory, or factory replica GP or Superbike that was originally built with 16 inch wheels. No hollow spoke. Magnesium rims must have current crack test certification. Maximum width front 3.0 inches, rear 3.75 inches.

**6l. BRAKES:** Must be of a style and type in use during the period.

**6m. TIRES:** No slicks or hand cut slicks. Tires must be correct fit and size for rim.

**6n. BODYWORK:** To be of the style in use for GP or SUPERBIKE during the period.

**6o. HANDLEBARS:** Superbike bars must be attached to the top yoke. GP bikes must be clip-ons below the top yoke.

**6p. FOOT CONTROLS:** Must be of the "rearseat racing style", defined as having the footpeg mounted on or behind the centre line of the swing arm pivot.

**6q. NUMBER PLATES:** Must be 9" x 11" oval or rectangular in size. Numbers must be a minimum 7" high by 1" stroke. Colours for all classes are red numbers on white background.

### **EXAMPLES OF ELIGIBLE PERIOD 3 BIKES**

These are just examples of bikes eligible for Period 3, you should check with the Technical Coordinator before building to make sure of eligibility

Honda CB400, 550, 650, 750F, 900F, CBX1000, CB1100R

Suzuki GS425, 550, 750, 1100, all Katana models up to 1100, all RGs to 1982, TR750

Kawasaki KH400, H1R, H2R, KR750, KZ550, 650, 750, 900 1000, 1100

Yamaha RD250, 350, 400, LC250, 350, TZ250J, 350G, 500, 750, XS400, 500, 650 XJ550, 650, 750, 1100

BMW R90S, R100S

Ducati 750SS, 900SS

Moto Guzzi 750S, 850, 1000LeMans

## **10. P1 and P2 SIDECARS**

**All rules in Part A are applicable to all classes.**

**P1 CLASSIC SIDECAR OUTFITS** are limited to outfits built before 1968, and outfits constructed after such date that are consistent in design and construction with outfits actually built in the Classic period, subject to the following restrictions:

**10a. ENGINES:** One or two cylinder, two or four stroke, built before 1968. Maximum 350cc two stroke, 650cc overhead valve, 750cc sidevalve. 5% overbore allowed.

Exceptions:

Matchless G50

Norton Manx

AJS7R

BMW Rennsport

BMW R50/5 and R60/5 w/OEM (stock) engine internals, maximum 26mm carburetors and four-speed gearbox

Ducati bevel drive single

Honda CB/CL450 w/OEM (stock) engine internals and OEM carburetors

**10b. WHEELS:** minimum 16 inch diameter front and rear, minimum 8 inch diameter on sidecar.

**10c. TIRES:** maximum 4.50 inch section width on front and rear, 4.80 inch section width on sidecar.

**P2 SUPERVINTAGE SIDECAR OUTFITS** are limited to outfits built before 1973, and outfits constructed after such date that are consistent in design and construction with outfits actually built in the period, subject to the following restrictions:

**10d. ENGINE:** One or two cylinder four stroke only, built before 1973. Maximum 750cc. Overhead valve or sidevalve only. Any period air cooled two stroke, single or twin cylinder, maximum 350cc. All engines in this class are restricted to stock valve sizes and stock carb venturi diameter. 5% overbore allowed.

Exceptions:

BMW Rennsport

BMW 4 speed/5, maximum 750cc, 500cc and 600cc (may use up to 32mm carburetors)

BSA 650

Ducati bevel drive 750

Honda twin 450cc and 500cc

Moto Guzzi 750

Norton Commando 750 (and 850 sleeved to 750cc)

Triumph 650/750

Any period OHC single cylinder

Yamaha XS650, can also use 750 big bore kits for VRRRA events only

Suzuki 500 T with stock internals, no TR 500 components

**10e. WHEELS:** minimum 15 inch diameter on front and rear, minimum 8 inch diameter on sidecar.

**10f. TIRES:** maximum 125mm/5.00 inch section width on front, rear, and sidecar

## **RULES APPLICABLE TO P1 and P2 SIDECAR OUTFITS**

**10g. DESIGN:** An outfit or sidecar is a three wheeled vehicle leaving two tracks, with only the rear wheel driving, and only the front wheel steering. Driver's point of contact with steering controls must be rigidly attached to front forks or other steering assembly. Center hub steering prohibited. Swingarms must be two sided, of period design and materials, and have a shock absorber located on each side without secondary linkage (OEM excepted, e.g. Vincent and NSU). Both sitter and kneeler designs are eligible. Sidecar chair must be rigidly affixed to cycle portion of the outfit by a minimum of four rigid mechanical or welded connections. Driver must be positioned generally behind engine. Steel tube frame construction only: no stressed skin or monocoque construction. Sidecar design: front exit only, e.g., passenger must lean outside of the track of the outfit in front of the sidecar wheel. Chair may be on right or left of cycle portion of outfit. Outfit must be equipped with appropriate handholds for passenger, including but not limited to a passenger handhold on the rear outside of the outfit opposite the chair and to the back of the driver.

**10h. DIMENSIONS:** The two wheels forming a single track must be no more than three inches out of line, measured center to center. Maximum track is 44 inches and minimum track is 32 inches (center to center of tires). Maximum width of outfit 72 inches. Minimum ground clearance of three inches between any part of outfit and an imaginary horizontal plane beneath the tires, with outfit ready for competition with driver, passenger, oil, fuel and coolant. Maximum fuel capacity 40 litres (10.56 gallons). Maximum engine offset (measured from a point equidistant from piston to piston to an imaginary line drawn between the centers of the front and rear wheels) 3 inches. No part of the outfit may extend longitudinally more than 12 inches from the front and rear tires. Minimum clearance front tire to outfit 1 inch. There shall be sufficient clearance between the handlebar grips and any part of the outfit, at any time, such that the driver shall not become trapped or not be able to operate the controls.

**10i. BODYWORK:** Sidecar wheel, rear wheel, and drive and primary chains must be adequately protected to preclude driver or passenger becoming entangled. Period dustbin style fairings are encouraged. All bodywork and streamlining must be strictly consistent with the applicable period. Downforce generating devices and designs are expressly prohibited. Driver's torso and the passenger's body must be completely visible from above at all times.

**10j. SUSPENSION TRAVEL:** Minimum 1.5 inch on front and rear wheels. Any sidecar wheel movement relative to platform is prohibited.

**10k. OIL COOLERS:** where fitted must be located so as to be generally visible to driver and passenger.

**10l. GEARBOX:** Applicable period components or functionally accurate reproductions only.

**10m. WHEELS:** Front and rear wheels must be of spoked construction, sizes as per specific class.

**10n. TIRES:** No slicks or slicks treaded after manufacture, sizes as per specific class.

**10o. BRAKES:** Working brakes on front and rear wheels mandatory; sidecar optional. Drum or single disc per wheel, provided that all disc brake components (disc rotor, caliper and master cylinders) are components (or functionally accurate reproductions) actually available in the applicable period. Friction linings and pads are unrestricted.

**10p. SAFETY SWITCH:** All outfits must be equipped with a functional master electrical switch mounted within reach of both driver and passenger. Switch must be able to stop a running engine and turn off all other electrical systems. The switch's mounting plate and an area at least 1 inch surrounding the switch must be painted red and clearly identified "ON" and "OFF" for identification by track safety personnel.

**10q. OIL CONTAINMENT:** shall be by a liquid tight container around the bottom of the engine with a minimum of 3 quarts capacity. Oil absorbing material shall be in addition to the container. The front edge of the container shall be equal to or greater in height than the centre line of the engine crankshaft. All breather tubes from catch cans must be routed into the oil containment container.

**10r. NUMBER PLATES:** Must be 9" x 11" oval or rectangular in size. Numbers must be a minimum 7" high by 1" stroke. Colours are as follows:

P1 - black numbers on white background

P2 – black numbers on yellow background

## **11. P3 SIDECARS**

**P3 SIDECAR OUTFITS** are limited to outfits built up to and including 1982, and outfits constructed after such date that are consistent in design and construction with outfits actually built in the period, subject to the following restrictions:

**11a. ENGINES:** four stroke air cooled only, up to 1100cc, two stroke maximum 3 cylinders, air or water cooled, up to 750cc. Engines are limited to units built up to and including 1982. 5% overbore allowed. All other engine components shall comply with P3 Superbike rules.

**11b. CHASSIS:** to be built of tubular or box section steel only. No stressed skin or monocoque construction with the exception of genuine or copies, in which case the owner shall provide proof of eligibility to the Technical Co-ordinator

**11c. DESIGN:** An outfit or sidecar is a three wheeled vehicle leaving two tracks, with only the rear wheel driving, and only the front wheel steering. Driver's point of contact with steering controls must be rigidly attached to front forks or other steering assembly. Center hub steering prohibited. Swingarms may be one or two sided, of period design and materials. Both sitter and kneeler designs are eligible. Sidecar chair must be rigidly affixed to cycle portion of the outfit by a minimum of four rigid mechanical or welded connections. Driver must be positioned generally behind engine. Sidecar design may be front or rear exit and may be on the right or left hand side. Outfit must be equipped with appropriate handholds for passenger, including but not limited to a passenger handhold on the rear outside of the outfit opposite the chair and to the back of the driver.

**11d. DIMENSIONS:** The two wheels forming a single track must be no more than three inches out of line, measured center to center. Maximum track is 44 inches and minimum track is 32 inches (center to center of tires). Maximum width of outfit is 72 inches. Minimum ground clearance of three inches between any part of outfit and an imaginary horizontal plane beneath the tires, with outfit ready for competition with driver, passenger, oil, fuel and coolant. Maximum fuel capacity 40 litres (10.56 US gallons). Maximum engine offset (measured from a point equidistant between outer pistons to an imaginary line drawn between the centers of the front and rear wheels) 3 inches. No part of the outfit may extend longitudinally more than 12 inches from the front and rear tires. Minimum clearance front tire to outfit 1 inch. There shall be sufficient clearance between the handlebar grips and any part of the outfit, at any time, such that the driver shall not become trapped or not be able to operate the controls.

**11e. BODYWORK:** Sidecar wheel, rear wheel, and drive and primary chains must be adequately protected to preclude driver or passenger becoming entangled. Period style fairings are encouraged. All bodywork and streamlining must be strictly consistent with the applicable period. Downforce generating devices and designs are expressly prohibited. Driver's torso and the passenger's body must be completely visible from above at all times.

**11f. WHEELS:** minimum 10 inch diameter on front, rear and sidecar, if magnesium wheels are fitted, they must have current crack test certification.

**11g. TIRES:** slicks and treaded tires are allowed. Tires must be correct fit and size for rim.

**11h. SUSPENSION TRAVEL:** Minimum 1.5 inch on front and rear wheels. Any sidecar wheel movement relative to platform is prohibited.

**11i. OIL COOLERS:** where fitted must be located so as to be generally visible to driver and passenger.

**11j. GEARBOX:** Applicable period components or functionally accurate reproductions only.

**11k. BRAKES:** Working disc brakes on front and rear wheels mandatory; sidecar optional but strongly recommended. Single or twin disc per wheel, provided that all disc brake components (disc rotor, caliper and master cylinders) are components (or functionally accurate reproductions) actually available in the applicable period. No floating rotors. Floating calipers are recommended to reduce the effects due to anti-dive characteristics of front end design. No four piston calipers. Friction linings and pads are unrestricted.

**11l. SAFETY SWITCH:** All outfits must be equipped with a functional master electrical switch mounted within reach of both driver and passenger. Switch must be able to stop a running engine and turn off all other electrical systems. The switch's mounting plate and an area at least 1 inch surrounding the switch must be painted red and clearly identified "ON" and "OFF" for identification by track safety personnel.

**11m. OIL CONTAINMENT:** shall be by a liquid tight container around the bottom of the engine with a minimum of 3 quarts capacity. Oil absorbing material shall be in addition to the container. The front edge of the container shall be equal to or greater in height than the centre line of the engine crankshaft. All breather tubes from catch cans must be routed into the oil containment container. A low oil pressure light, visible to driver and passenger is required for all engines fitted with plain bearing crankshafts.

**11n. NUMBER PLATES:** Must be 9" x 11" oval or rectangular in size. Numbers must be a minimum 7" high by 1" stroke. Colours are red numbers on white background.