

Aussie Retro

Can-Am Style Cars

(Adapted from IRRA Regulations, 8.3.08)

General Specifications

- 1 **Maximum Overall Chassis Width:** 3.125" (79.38mm), measured across any part of the chassis, as well as across the front and rear axles).
- 2 **Maximum Body Width:** 3.250" (82.55mm), measured at the front and rear wheel arches.
- 3 **Maximum Rear Tyre Width:** 0.810" (20.57mm).
- 4 **Minimum Rear Tyre Diameter:** 0.8125" (20.64mm).
- 5 **Minimum Front Tyre Width:** 0.250" (6.35mm). Wheels with O-ring 'tyres' are prohibited. The front tyre contact patch must touch the track across the full width of the tyre (i.e. no coning/angling or knife-edging is allowed). Tyre edges may be rounded to a maximum 1/16" radius.
- 6 **Minimum Front Tyre Diameter:** 0.750" (19.05mm).
- 7 **Minimum Rear Chassis Clearance:** 0.047" Piano wire (18g) or 1.19mm.
The entire motor bracket, rear chassis section, and gear must meet this clearance.
Clearance will be measured with front and rear tires sitting flat on the test block without the guide.
- 8 **Minimum Front Chassis Clearance:** 0.015" (0.38mm), measured at the most forward part of the chassis.
Clearance will be measured with front and rear tires sitting flat on the test block without the guide.
- 9 **Axles (Front & Rear):** 3/32" (2.38mm) minimum diameter, solid steel. Hollow axles are not allowed. Axles may only be flattened in the areas where the wheels and gear are secured.
- 10 **Bushings/Bearings:** Oilite/bronze bushings only. No ball bearings are allowed in the front or the rear.
- 11 **Minimum Weight:** 100 grams ready to race.
- 12 **Drive Type:** Inline drive only, with the motor shaft at 90° to the rear axle.
- 13 **Drive Gears:** Any drive gear and ratio may be used.
- 14 **Maximum Front Axle Play:** 0.125" (3.18mm), as part of the maximum front track width.
At no time can tires extend out past the body.
- 15 **Maximum Rear Body Height:** 1.375" (34.93mm) measured with the car on all four wheels on a tech block (unsupported by the guide flag), from the tech block surface to the top of the highest point of the rear of the body, excluding any add-on spoiler. Severe raking of the body for aerodynamic effect is not allowed.
- 16 All chassis parts, including the guide flag, must be covered by the unmodified body.
- 17 The wheels shall be located in relation to the wheel arches in the body.
- 18 **Tyres – Rear:** Any commercially-available black natural rubber tyre, chemically-treated or untreated, on any size hub.
Only WD40 or Lighter fluid can be used to clean the tyres. No "Goo" permitted. No chemical treatment allowed except by manufacturer as previously mentioned.
Competitors found using "goo" or other chemical treatments to enhance the traction qualities of the tyres may receive a penalty not exceeding 25 laps. Such actions are deemed to be contrary to the spirit of the nature of vintage racing. Tyres are to be purchased at a reputable supplier, and may be glued on the rims and ground to size. Please observe this rule to make it fair for all that compete.
- 19 **Tyres – Front:** Must be made of two pieces, i.e. a wheel and a tyre. Front wheels may be made of any material and can have any size hub (as long as the front wheel and tire dimensions listed elsewhere in these rules are observed). Must be glued to the wheels and be made of black rubber.
May be coated with cyanoacrylate adhesive ("Super Glue") or nail polish.
Must contact the track surface before any part of the chassis when car rocked from side to side.

Chassis

- 1 **Chassis Type:** Any personally built or commercially available scratch built chassis in kit form or built conforming to these specifications is allowed.
- 2 **Chassis Materials:** Brass: sheet, rod, and tube; steel: wire, pin tubing, and commercial guide tongues are allowed. Steel tongues cut from center sections of Flexi chassis, such as Parma Flexi 2 or 3, JK Cheetahs, etc., may be used until January 1, 2009, but cannot be cut off any farther back than 3/8" (9.53mm) behind the front axle and are limited to a maximum 1" (25.4mm) width. Other pieces of steel used for guide tongues are limited to a maximum 1" (25.4mm) total width and 1.50" (38.1mm) total length. No other materials are allowed. Chassis parts, such as pans, brackets, guide tongues, etc., that are made using EDM, laser, or water-cutting techniques are allowed only if they are individual commercially available components or components of chassis kits (i.e. these techniques may not be used in the private manufacture of one-off components). Materials such as printed circuit boards are not legal. Each car must have a brass rear bracket consisting of at least three sides (vertical or horizontal), with each connected side having a minimum width or height of at least .200" (5.08mm). The motor bracket must support the motor and extend to touch the rear axle tube.

The axle tube does not need to travel through the motor bracket. The motor can be screwed to the motor bracket and/or soldered in place. Floating pin tubes inside another tube are allowed.

- 3 **Tape/Lead:** Lead weight may be added to a chassis but may only be affixed to the topside of the chassis. Strapping or other tape to control or restrict movements is allowed but may only be affixed to the topside of the chassis.
- 4 **Hinged Movements:** Other than a drop arm, all hinged movements must be oriented in only one direction on any individual chassis. A chassis may have transverse hinges (examples: Iso-fulcrum hinges and plumber hinges) **OR** it may have longitudinal hinges (example: side pan hinges) but the chassis may not have both types. The number of individual hinges is not restricted. Centerline hinges are NOT allowed.
- 5 **Front axle:** A single straight, 3/32" (2.38mm) minimum diameter, one-piece front axle is required, carrying both front wheels. The axle may be fixed or in a tube. NO hinged front wheel movements are allowed (i.e. no "L" arms). Front wheels may rotate independently.
- 6 **Guide:** A single guide flag is allowed, centered on the longitudinal axis of the chassis (i.e. no sideways "free float" or offset) and with a blade no larger than .086" (2.20mm) wide x 1.060" (27.18mm) long.
- 7 Guide clips may be used.
- 8 Any lead wire may be used.
- 9 No part of the chassis, motor, gear, or other component may hang below the main chassis rail(s), which may not be bent or bowed vertically for the purpose of lowering the midsection of the frame below the level dictated by the clearance specifications.

Motor

1. **Motor:** Plafit Cheetah II only to be used, and must remain unopened and unmodified.
2. **Exclusion Clause:** Clear violation of the motor-tampering rule may result in permanent exclusion from future Aussie Retro events of any kind.
3. A motor may not be changed after tech inspection at any time unless it fails during the race. A motor change between heats is NOT allowed unless the motor change was begun during an active heat. Motor changes must be approved and re-inspected by the Tech Director.

Body

- 1 All approved Can-Am bodies are listed in the "Approved Body Lists" section. All bodies must be representative of pre-1970 cars. Note: It is requested, in keeping with the spirit of retro racing, that bodies not be any less than .007" thick on the sides. Any body found to be flimsy or a detriment to marshaling will need to be corrected by the racer. Tape or body armor may be used to achieve the desired side thickness.
- 2 An entrant may only use one body per class.
- 3 **Body style:** Racers are encouraged to present cars with scale realism. Bodies must be those on the approved body list. No "flattened" or "aerodynamically-improved" bodies allowed (i.e. no molded-in spoilers, wings, etc., that were not on the original full-size car or original mold). Note: molded-in spoilers may not exceed the allowed specification governing the maximum width of the body. Front wheel arches must be cut out. Rear wheel arches may be left closed if the original full-size car ran with closed wheel arches. Bodies must be presentably-painted and carry at least three racing numbers, one on each side, and one on the front and not less than 1/2" (12.7mm) in height. To further clarify this regulation, all bodies must be fully opaque on all sides except for those areas deemed to be windows. Windows may be tinted. The term opaque means covered by paint, tape, or other suitable material such that a finger is not visible through the paint or other covering under normal lighting. No part of the chassis may be seen when looking down on the car from above. Legal openings, such as air vents, etc., may be cut out. There should be a minimum 1/16" (1.59mm) vertical component and/or part of the grill along the front edge of the body unless this element was not on the original car (example: Ti22).
- 4 Bodies may be reinforced with tape and/or other suitable materials.
- 5 **Spoilers and Air Control:** A single, flat plastic spoiler set at any angle may be added to the rear of the body only. The spoiler's length is limited to a maximum of 1/2" (12.7mm) from the rear edge of the body and must be no wider than the outer edges of the body. No additional bends are allowed except for the one used to set the initial angle. No side dams of any type are allowed. Front diaphanes are not allowed. High-mounted wings are allowed if they are used on the original full-size car. Such wings must be securely attached to the body and/or chassis.
- 6 **Cockpit:** All bodies must carry a painted (at least three colors), fully-molded three-dimensional interior comprising a driver (helmet, shoulders, and arms), a steering wheel, and cockpit representation. No paper interiors. If a Can-Am body does not have a molded-in driver, then the body must be totally cut out so the interior is in full view.

Approved Bodies List

IRRA Approved List

Model	Manufacturer	Part No.	Model	Manufacturer	Part No.
Arbarth	MAC	V11	McLeagle	Outisight	OS409
Arbarth	Outisight	OS406	McLaren M6	JK	7087
Chaparral 2H	Howmet		McLaren M6	Electric Dreams – VonKlein	MES-01
Ferrari 312	MAC	V16	McLaren M6	Red Fox	
Ferrari 330	TrueScale		McLaren M6	ToyTech	TR200
Ferrari 330	Lancer	163	McLaren M8	Champion	
Ferrari 350	Howmet		McLaren M8	Electric Dreams – Lancer	ELEB-03
Ferrari 350P4	Red Fox		McLaren M8	Outisight	OS413
Ferrari 612	JK	7086	McLaren M8	ToyTech	TR179
Ferrari 612	Howmet		McLaren M8A	TrueScale – Dynamic	TSR12
Ferrari 612	True Scale (Long & Short)	TSR03	McLaren M8A	TrueScale – Lancer	
Ferrari 612	Champion	(Dave Bloom)	McLaren M8B	Outisight	OS411
Ferrari 612	Outisight	OS410	McLaren M8B	TrueScale – Kirby	TSR01
Ferrari 612	Outisight	OS414	McKee	Howmet	
Honker	Red Fox		McKee	ToyTech	TR202
Lola T160	MAC	V15	McKee	Outisight	OS405
Lola T160	Outisight	OS407	Porsche 908 Spyder	Howmet	
Lola T160	Toytech	TR195	Porsche 908 Spyder	Red Fox	
Lola T160	TrueScale	TSR05	Porsche 908 Spyder	Truescale	TSR07
Lola T70 Roadster	TrueScale	TSR08	Shelby King Cobra	Toytech	TR180
Lola T70 Roadster	Howmet		Ti22	JK	7081
Lola T70 Roadster	Outisight	OS412	Ti22	MAC	V03
Lotus 40	JK	7090	Ti22	Outisight	OS408
Lotus 40	TrueScale	TSR06	Ti22	Outisight	OS408L
Lotus 40	Electric Dreams – Dynamic	ELEB-029	Kirby Ti22	Outisight	OS415
Lotus 40	Electric Dreams – Russkit	ELEB-030	Ti22	Toytech	TR194

Additional AussieRetro Approved List

Model	Manufacturer	Part No.	Model	Manufacturer	Part No.
Elfin T400	Sunset		Lola TS160	Sunset	
Ferrari 612	Sunset		Lola T70	Sunset	
Ferrari P4	Sunset		Matich SR3	Sunset	
Honker II	Sunset		McLaren M6	Sunset	
King Cobra	Sunset		McLaren M8A	Sunset	
			Ti22	Sunset	