

**HONG KONG HUMAN POWERED VEHICLE
ASSOCIATION**

INTERNATIONAL PEDAL KART SPECIFICATION

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0 Preamble and Rule Date

This rule's effective date is July 1st 2000. Certain rules below have differences depending on whether the kart was substantially built before the Rule Date.

This is the agreed International Pedal Kart Rule which will be used from the 2000-2001 racing season in Hong Kong onwards.

This rule should be read in conjunction with the HKHPVA Racing Rules.

1 Number of Road Wheels

Four, all functional and load bearing

2 Configuration of Road Wheels

Conventionally arranged in two pairs.

3 Dimensions

- 3.1 Maximum overall length 2030mm
- 3.2 Maximum overall width 1125mm
- 3.3 Maximum overall wheel diameter (measured over the inflated tyre) 560mm
(Pre Rule Date Karts: 765mm)
- 3.4 Maximum height of uncompressed seat cushion (above ground level) 610mm
- 3.5 Minimum distance between centre of wheels 650mm
- 3.6 Minimum distance between front and rear axles 650mm

Safety Note: Experience shows that short wheelbase karts are significantly less stable in corners and designers are urged to ensure an adequate size for their karts.

4 Motive Force

Motive force is that of a single driver. Any system to alter velocity ratio between input and output is permitted (e.g. gears.)

5 Manoeuvring

- 5.1 Steering shall be provided such that the kart has a turning circle of not more than 10,000mm diameter (which includes the width of the kart) when underway.
- 5.2 The design of the steering shall be such that the wheels can be moved from full left lock to full right lock in one uninterrupted movement.
- 5.3 Steering must be effective on front wheels by a safe system of rods or cables. All linkages must be secure and free of excessive play. Four wheel steering systems

are permitted. Steering systems acting only on rear wheels are banned.

6 Braking

Braking must be efficient, effective and balanced on at least two wheels with due allowance for wear during racing.

7 Mirrors

Mirrors, if fitted, shall not extend outside the widest part of the kart as measured at any point perpendicular to the centre line; and must be plastic or otherwise rendered shatterproof.

8 Seating

8.1 The driving position will be between upright and supine (not prone).

8.2 The seat back recline angle must not be so excessive as to prevent a clear and easy view to the front.

8.3 The driver must be able to get into and out of the kart unaided.

Safety Note: Excessive recumbent angles on seating which in the opinion of the organisers will endanger the driver in the event of a collision will fail scrutineering on safety grounds.

9 Fairing

9.1 If a fairing is fitted all pedallers must either be tall enough to be able to see over it, or a section must act as a transparent windscreen. In either case good all round visibility for the driver must be demonstrated.

9.2 It should not have any sharp or dangerous edges which could cause injury in the event of a collision or rolling the kart.

9.3 The design of the fairing should be such that, in the event of the kart rolling, drivers can protect their heads with their arms. Where this is impossible roll bars must be fitted that are at least as high as the tallest pedaller in the team when seated and wearing a crash helmet.

10 Safety

10.1 Hand controls shall not be positioned near the chain or sprocket wheels.

10.2 No protruding parts, which in the opinion of the scrutineers could cause damage or injury, will be permitted.

10.3 Any entry, which, in the opinion of the scrutineers, is unsafe, will be refused permission to start.

10.4 For the safety of all, suitable protection must be provided, within the overall permitted dimensions, to any items considered a danger by the scrutineers. This could be in the form of bumpers, crash bars or a fairing.

11 Identification

11.1 Racing numbers must be clearly visible from the front, back and both sides of the Kart, from any reasonable viewing angle, including those represented by other competitors, race marshalls and possible manual lap scorers.

11.2 Racing numbers must be of highly contrasting colours and must be weatherproof (ie not paper).

11.3 Minimum height of numbers is 150mm and minimum width of stroke of each number is 25mm.

11.4 Race rules may mandate colour schemes for numbers and their backgrounds to enable competitors to identify racing divisions.

12 Lighting

At least two headlights and two rear lights must be operational during any statutory lighting up period and shall be battery powered. Lights must be fitted on a stable base for scrutineering prior to any race with statutory lighting up periods, though may be removed outside such periods. Restrictions on the type of lights (if any) may be found in the Race Rules.