

## CPPRA QUICKIE 500

### 1. General

The basic intent of these rules is to produce a group of racing aircraft which are as close in performance as possible. The objective of Quickie 500 is to stage a closely contested race which is not dependent on aircraft performance and which serves to foster greater participation in pylon racing events at the entry level. Any violation of spirit, intent or technical aspects of these rules shall be cause for immediate disqualification by the C.D.

Any unsportsmanlike conduct or hazardous flying can be cause for immediate disqualification by the C.D. Consideration of safety for the spectators, contest personnel and contestants shall take precedence over all other interests., contest personnel and contestants shall take precedence over all other interests.

### 2. Aircraft Specifications

The intent of these specifications is to equalize aircraft performance by standardizing basic aircraft design limits. The aircraft shall be of conventional design with forward wing and aft empennage. Acceptable empennage includes those of a vertical stabilizer atop a horizontal stabilizer, "Mid-tail" designs, "T-tail" designs and "V-tail" designs

### 3. Wing

The minimum wing area shall be 500 square inches (3226 cm<sup>2</sup>). The wing thickness shall be a minimum of 11.25 percent of the chord for no less than 47-1/2" of the wing span. The wing must be of constant chord design. The overall span shall be a minimum of 50 inches and a maximum of 52 inches. No tapered wings of any type are allowed. The wing must have two equally sized functional ailerons, one on each side.

### 4. Fuselage

The fuselage shall be rectangular in cross sectional shape with no more than 1/4 inch (6 mm) radius on any corner. The firewall shall be a flat surface of no less than 2-1/4 inches (5.72 cm) by 2-1/4 inches (5.72 cm), and may have a 1/4 inch radius at the each of the four corners, but rounding of the edges is not permitted. There shall be no cowling of the engine or mounts. No wing fillets are allowed.

### 5. Engine

The engine shall be any commercially available, stock, front intake, side exhaust, having maximum displacement of 0.403 cu.in. with a R/C carburetor. Webra-Q, Rossi, and any engine predating 1990 will be allowed. None of the Nelson or Jett Engineering line of Quickie racing engines is allowed.

Engines and parts must have been produced in quantities greater than 500 and must be available through retail outlets in Canada and the U.S.A. No modification is permitted except that screws, bearings, glow plugs, gaskets, prop washers and the prop nut may come from any source. Back plate type radial engine mounts of alternative manufacture may be used provided they displace the same volume as the stock back plate assembly. Should repairs be necessary only Original Equipment Manufacturers (O.E.M.) replacement parts may be used as specified for the engine in use, with the exception of the aforementioned parts.

### 6. Carburetor

A conventional RC carburetor permitting metering of both fuel and air over the entire range of engine speed shall be used and must be original equipment from the engine manufacturer for that particular engine. The maximum allowable throat diameter of the carburetor shall not exceed 9 mm.

### 7. Muffler

The stock muffler that comes with the engine is to be used. The only after-market mufflers allowed are the Nelson and Jett Engineering Q40 mufflers. Any muffler that is used must have a single exhaust outlet. Flow-through mufflers and full wave tuned pipes are not permitted. No modifications to the muffler are permitted except that the muffler may be tapped for a pressure fitting to supply pressure to the fuel system.

#### 8. Propeller

Any commercially available wood propeller, sanded on one side for balance purposes only may be used. The prop hole may be enlarged if necessary. Commercially produced, compression molded, continuous fiber plastic/composite propellers are also acceptable.

#### 9. Pressure Systems

Fuel pressure systems are allowed using muffler pressure only. No fuel pumps of any type are allowed.

#### 10. Controls

The aircraft must be equipped with a radio having at least three separate control functions to independently operate the engine's carburetor or fuel shut off, elevator, and ailerons. A positive means of directional control for takeoff must be provided. A rudder on a conventional tail or rudder-vators on a V-tail accomplishes this.

#### 11. Landing Gear

The main gear of the aircraft shall be fixed and have no less than two wheels measuring at least 2-1/4 inches (5.7 cm) in diameter. Wheels must be at least eight (8) inches apart measured parallel to the wing. Landing gear shall be conventional tricycle or tail wheel/skid design. Strut fairings and wheel pants are not permitted.

#### 12. Weight

Minimum aircraft weight shall be 3-1/2 lbs. (1.59 kg) measured immediately after the heat.

#### 13. Fuel

The contest organizers shall supply fuel with a maximum nitromethane content of 15 percent.