

PATTERN COMPETITION GUIDE

PREFACE:

The competition flying of vintage radio control model aircraft is intended to be casual, enjoyable and interesting for the competitors. It is neither desired to advance the state-of-the-art of aero-modeling nor re-write what is already recorded in aero-modeling history. The intent of the rules is to categorize the basic types of vintage models and establish an equitable and simple framework of regulations for competition purposes.

Planes must have been designed for radio control.

These rules will govern those models entered into VR/CS pattern competition *ONLY*.

GENERAL:

There are three classes recognized for VR/CS pattern competition as indicated:

Note: Throttle control is permitted in all classes.

- A. **Class I (Port):** Planes controlled about the Yaw axis, by rudder control only. *No* auxiliary aerodynamic controls are permitted (flaps, spoilers, etc.); *no* auxiliary non-flight controls are permitted (brakes, steerable wheels, etc.)
- B. **Class II (McEntee):** Planes controlled about the Yaw and Pitch axis, by rudder and elevator control only. Auxiliary non-flight controls (brakes, steerable wheels, etc.) *are* permitted without limitation. Auxiliary flight controls (flaps, spoilers, etc.) *are not* permitted.
- C. **Class III (Brooke):** Planes controlled about the Yaw, Pitch and Roll axis, by rudder, elevator and aileron control, with no limitations or restrictions on primary aerodynamic controls, auxiliary aerodynamic controls or auxiliary non-flight controls.

AIRCRAFT:

VR/CS pattern competition is open to any **R/C** model design kitted, published or flown prior to the date defined by current VR/CS policy which is "35 years old prior to the first of the current year".

- A. Aircraft should be built to the plan form of the plans.
 1. Original airfoils should be maintained.
 2. Change to bolt on wings instead of rubber bands is OK.
 3. Stab location can be altered.
 4. Foam wings can be substituted for built up balsa.
 5. Strip ailerons may be substituted for "barn door" style ailerons.

B. Unless specified on the original plans, retractable landing gear is prohibited.

C. The contestant is responsible to furnish documentation for any model not on the VR/CS Legal Airplane List.

D. *Models entered into VR/CS pattern competition must be original size; no scaling allowed.*

Note: **No** "Builder of the Model" rule is in effect for VR/CS pattern competition.

A contestant is allowed one primary and one backup aircraft per event. Two contestants may **not** use the same aircraft in any given event.

ENGINES:

- A. Any side exhaust two cycle up to .61 cubic inches (10cc) is legal.
- B. Four cycle engines up to .91 cubic inches (15cc) without air chambers or supercharging of any kind are legal.
- C. The use of vintage engines is permitted provided the above guidelines are met, but all engines must use a proper muffler. Tuned pipes are prohibited.
- D. Electric power may be substituted for glow, there are no limitations on battery/motor combinations.

RADIOS:

- A. Any radio allowed by the AMA / FCC is legal for use.

EVENT RULES:

- A. Aerobatic competition is based on maneuver sequences typical of the period.
- B. In order that the pattern category does not dominate a VR/CS event, there will be a limit to the number of scored flights. It is recommended that three flights be scored with the total of the best two used to determine final standings. However, if necessary to accommodate a large number of contestants and/or to complete the event in one day, the best of two scored flights should be used.